CATALOGUE

HIGH PERFORMANCE CONSUMABLES FOR THE PROCESS & THE INDUSTRIAL MAINTENANCE

ORAPI® PROCESS

THE ONLY FRENCH MANUFACTURER VERTICALLY INTEGRATED FROM DESIGN TO MARKETING

ORAPI PROCESS

An ORAPI GROUP company

ORAPI GROUP

Our teams stand by your side to ensure suitable advice, quality service and to offer training in the use of our products.

A NATIONAL INTEGRATED NETWORK PROVIDING YOU WITH:

A ***Know-how:***
Reference brands in the hygiene market.

A ***sales force***:
More than **150** technical sales representatives & **37** sales assistants.

104 000 m² of storage capacity spread throughout the world, including **75 000 m²** in France

A ***technical service***
at your disposal

An ***After Sale Service*** to ensure maintenance of your material.

An ***expertise*** :
a complete range of maintenance consumables and materials.

520
collaborators

1 100
orders/day

30 000
active customers

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FRENCH MANUFACTURER

ORAPI GROUP: IMPROVING YOUR WORKPLACE ENVIRONMENT

High performance industrial consumables

Guy Chifflot
CEO

Henri Biscarrat
MANAGING DIRECTOR

3 Research laboratories

1970 GROUP'S CREATION

DISTRIBUTED IN 150+ COUNTRIES

7500+ PRODUCTS

8 PRODUCTION UNITS

Orapi Group is the only French consumables manufacturer that is vertically integrated from design to marketing

Distributed in more than 150 countries, the Orapi Group is the leading French supplier designing, producing and marketing high performance consumables for the hygiene and process sectors.
Orapi Hygiène and Orapi Process aim to provide the most comprehensive range of products designed specifically to meet the requirements of the hygiene and process sectors. They have a unique portfolio of specialized brands within each sector with integrated manufacturing facilities.
Orapi combines know-how and expertise, drawing on a wide range of skills, and targets customer satisfaction through on-going responsible research and innovation. With more than 2 million users worldwide, our actions are based on continuous quality improvement.

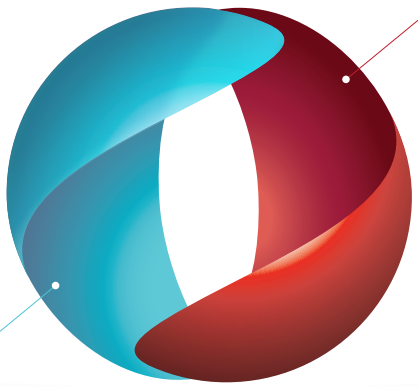
Hygiene and Process: your business is our inspiration

DESIGN • MANUFACTURING • MARKETING

ORAPI GROUP

CLEANING COMPANIES | TERTIARY | HEALTH | LEISURE | TRANSPORT | INDUSTRY

2 MAIN MARKETS WITH A GLOBAL PRESENCE



PROCESS DIVISION

Consumables
for the maintenance
of industrial equipment

HYGIENE DIVISION

Cleaners
and disinfectants

2 000 000
end users

EUROPEAN CERTIFICATIONS

BVCert. 6081077

1014

ORAPI PROCESS

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OR SPECIFIC REQUEST

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PENETRATE & RELEASE

DISMANTLE
CLEAN
LUBRICATE

PENETRATING OILS

QUICK SELECTION		CERTIFICATIONS				
				FOOD INDUSTRY		NUCLEAR INDUSTRY
		NATO	NANO		NSF	PMUC
DEGRILUB	Lubricant					
REDUCE 4	Power	•				
REDUCE 7	Non-flammable					
NANOLUBRICANT	Power +		•			
REDUCE AL	Food industry			•	•	
DEGRYP'BIO	Organic			•		
REDUCE 2N	Nuclear and energy industry					•
WR+	Multi-purpose	•				

PENETRATE & RELEASE

DEGRILUB 801

LUBRICANT

An essential product for mechanical engineering. Frees, protects and lubricates. Excellent wettability enables rapid action on small mechanisms: bolts, screws, etc. Anti-seize lubricant: for locksmiths, the automotive industry, the industrial sector, etc.

T° : **-30 to +100°C**

4801A4	650 ml aerosol
2801J1	5 l jerrycan
2801U2	200 l drum

REDUCE 4 800

SUPER POWERFUL

Fast acting. Wetting, penetrating, rust removing, cleaning, water repellent, phosphating, lubricating. For very difficult dismantling operations without damaging the threads. Properties: prevents rust, corrosion and wear.

4800A8	270 ml aerosol
4800A2	405 ml aerosol
4800A5	800 ml aerosol
2800i1	500 ml spray bottle
2800i2	1 l metal container
2800J1	5 l jerrycan
2800U2	200 l drum

REDUCE 7 814

NON-FLAMMABLE

Penetrate, frees and eliminates carbon deposits. For all industries where fire hazard prevention is key: ironworks, glass works, mines, tunnels etc. Contains silicone. Eliminates residue, glue deposits, paint.

Flash point: **none**

4814A4	650 ml aerosol
2814J1	5 l jerrycan

NANOLUBRICANT® 2025

HIGH TECHNOLOGY

Loosens, lubricates and penetrates. Water repellent, prevents corrosion. Fast acting. Silicone- free. Nanolubricant®: performance enhancing technology. Reduces loosening torque by 5. Increases productivity.

42025A4	650 ml aerosol

REDUCE AL 799

FOOD INDUSTRIES

Low surface tension fluid.
Infiltrates, penetrates, cleans, lubricates with a de-seizing effect. Preventive and curative action against rust. For all kind of seized mechanism, small tools, conditioner, fastenings, plumbing, manufacturing and packing of food…

colourless
Odour: **none**

4799A2	405 ml aerosol
2799J1	5 l jerrycan

DEGRYP'BIO® 817

BIODEGRADABLE, VOC-FREE

For difficult dismantling operations in places where environmental protection is key: forests, rivers, lakes, seas, gardens, etc. Formulated for minimal environmental impact, from plant-based lubricating, degreasing and tar removing raw materials. Fast acting. Wetting, penetrating, water repellent, rust and corrosion inhibitor.

Flash point: **> 150°C**

4817A4	650 ml aerosol
2817U2	200 l drum

REDUCE 2N 815

HALOGEN-FREE

Lubricating, de-seizing fluid with high penetrative power. Dissolves the residue formed by mounting pastes. Lubricates and protects. Penetrates, removes rust, dissolves tar and dirt on the dirtiest parts, infiltrates even the narrowest spaces. Very effective against salt water corrosion.

Cl - F - S - Br : **< 200 ppm**
PMUC : **04-033**

6815A2	405 ml aerosol
6815i1	500 ml spray bottle
6815J1	5l jerrycan

WR+ 805

5 FUNCTIONS, OVER 1 000 USES

Removes moisture by repelling water on metal and eliminates short circuits. Rapidly penetrates by seeping into cracks, frees parts, ensuring constant operation. Protects, deposits a thin layer of anti-corrosive and lubricating substances. Cleans and gets under the dirt.

4805A8	270 ml aerosol
4805A4	650 ml aerosol
2805i2	1 l metal container
2805J1	5 l jerrycan
28050I	Tonnelet 20 l
2805U2	200 l drum

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HOW TO CHOOSE A SOLVENT? OUR ENGINEERS' RECOMMENDATION

The right choice is to find a balance between evaporation rate, flash point(1), effectiveness (Kb value), the environment and price.

To facilitate your choices, given the complex scope of solutions, we provide a summary table below.

DRYING TIME	FLASH POINT	KB VALUE	PRODUCTS	PAGE
IMMEDIATE	None	135	504 SDI NEW	12
		130	518 ORASOLV A05	12
	< 21	120	514 ORASOLV 0	14
		100	507 NDI	14
		80	568 ORASOLV A	16
		75	503 KLEANER	14
			516 NET FREINS	14
RAPID	> 23	100	9539 TAR OFF	15
	> 30	150	5432 ORASOLV S2	13
		85	581 ORASOLV L2	13
		70	512 ORASOLV L	13
		35	564 ORASOLV B30	12
CONTROLLED	> 40	80	539 ORASOLV E	15
		78	538 ORASOLV 89 CLI	15
		72	511 ORASOLV M1	13
		35	567 ORASOLV B40	12
		30	544 ORASOLV T	16
AVERAGE	> 61	70	540 ORASOLV P	13
		35	571 ORASOLV B60	12
	> 62	35	517 A62NU	14
		30	513 ORASOLV N	16
	> 69	80	550 ORANGE SOLVENT	14
SLOW	> 75	150	5232 ORASOLV S232	13
	> 80	150	543 ORASOLV S1	16
	> 100	80	5820 COLZ'EMUL	15
	> 100	30	576 ORASOLV R2	16
	> 150	80	582 NATUR'SOLV	13

(1)Required temperature for the solvent to ignite spontaneously in the presence of a flame or spark (not to be confused with the autoignition temperature). Generally speaking, the lower the flash point, the faster the evaporation and the drier the solvent.

CLEAN

DEGREASE
STRIP
DISINFECT

HOW TO CHOOSE THE RIGHT DETERGENT AND ACHIEVE THE BEST RESULTS?

Making the right choice initially involves identifying the type of dirt you wish to remove, our table will help you make the link between your type of dirt and the pH of our product. This is essential for maximising effectiveness.

Our recommendations will subsequently allow you to make the appropriate choice in terms of equipment, dosage, temperature and action time.

	ACID pH						NEUTRAL pH			ALKALINE pH					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
targets	DESTRUCTIBLE DIRT						SUSPENDED DIRT			EMULSIFIABLE DIRT					
	Cement						Sugar			Grease					
	Rust						Starch			Lipids					
	Limescale						Salt			Proteins					
	Limestone						Dust			Emulsion					
	Mineral deposits						Fat			Soap					

IDEAL USE ACCORDING TO ORAPI

CHEMICAL ACTION (pH)

THE RIGHT ORAPI PRODUCT

MECHANICAL ACTION

THE RIGHT EQUIPMENT
parts washer, scrubberdrier, pressure washer, manual

TEMPERATURE OF MIXTURE

ALL OUR PRODUCTS ARE CONCENTRATES:
diluting with water at 40°C improves the effectiveness of our products and prevents problems due to overdosing.

ACTION TIME

THE RIGHT ACTION TIME
Allow to work before rinsing or leave the parts to soak in our parts washers designed for this purpose.

STANDARD SOLVENTS

ORASOLV B30 564

RAPID EVAPORATION

Appropriate solvent for metallic surfaces, mechanical and electrical parts as part of interoperation cleaning and routine degreasing. Deeply penetrates and completely dissolves greasy deposits and sludge. Leaves a perfectly dry surface. Can be used in finishing works.

2564i2	1 l container
2564J1	5 l jerrycan
256401	20 l drum
2564U2	200 l drum

colourless
Flash point: **>30°C**
Dielectric strength: **>40 kV**

ORASOLV B60 571

SAFE ANTI-CORROSION TREATMENT

Degreasing of every very greasy metal surfaces. Evaporates slowly, leaving a light, corrosion inhibiting film. Recommended for soaking to remove stubborn deposits.

2571i2	1 l container
257101	20 l drum
257102	25 l metal drum
257105	60 l drum
2571U2	200 l drum
2571N1	1,000 l container

colourless
Flash point: **>60°C**
Dielectric strength: **>40 kV**
Compatible with ultrasonic cleaning baths

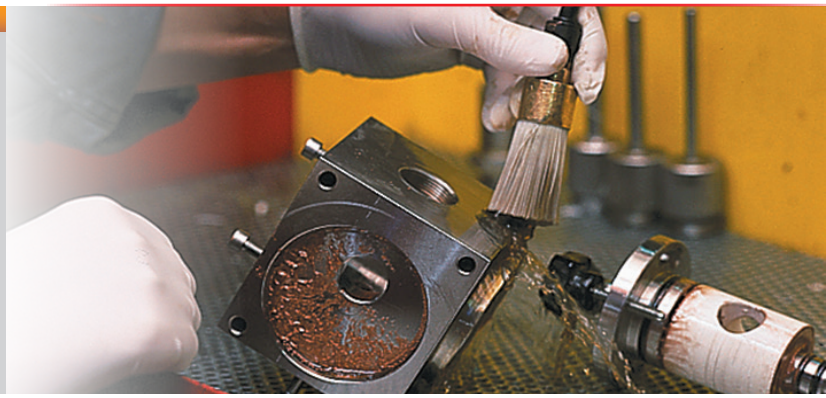
ORASOLV B40 567

UNIVERSAL

Cleaning solvent which evaporates rapidly when blown dry. « For the thorough degreasing of all mechanical parts soiled by grease and oil residues, even when oxidised and burnt.

2567I2	1 l container
2567J1	5 l jerrycan
256705	60 l drum
2567U2	200 l drum

colourless
Flash point: **>40°C**
Dielectric strength: **>40 kV**



NON-FLAMMABLE SOLVENTS

SDI NEW 504

INDUSTRIAL SUPER DEGREASER

Extremely powerful degreaser: burnt grease, synthetic fluids, fuel, tar, rubber, varnish and deposits produced by hydrocarbons. Dries immediately. Prepares surfaces prior to glueing or painting.

4504A5	800 ml aerosol
2504J1	5 kg metal jerrycan
250401	20 kg metal drum
250405	60 kg drum

colourless
Mild orange scent.
Kb value: **>135**
Non-flammable

ORASOLV A05 518

CLEANER/STRIPPER

For surface preparation. Perfectly dissolves grease, tar and oil deposits, resins, glues inks and paints. Rapid and total evaporation. Leaves a dry, clean surface, without any residue.

2518i2	1 kg container
2518J1	5 kg metal jerrycan
251801	20 kg metal drum
2518U2	200 kg drum

colourless
Dielectric strength: **>60 kV**
Kb value: **>135**
Non-flammable

A 90H 508

CLEANER FOR ELECTRONIC APPLICATIONS

Extremely safe live contact cleaner. Rapid and total evaporation. Cleans electrical cabinets, coils, printed circuit boards, precision electronic equipment (relays, connectors, etc.). Defluxing solvent. Does not stain. Does not lead to the oxidation of parts once it has dried. Has no effect on plastic.

4508A4	650 ml aerosol

colourless
Dielectric strength: **>50 kV**
Non-flammable

HIGH-TECH SOLVENTS

ORASOLV L 512

RAPID EVAPORATION

New generation solvent appropriate for all mechanical and electrical parts (power down). Rapidly cleans and leaves a perfectly dry surface. Ideal for applications where mechanical parts are very greasy.

2512i2	1 l container
2512J1	5 l jerrycan
251205	60 l drum
2512U2	200 l drum

■ light green
Flash point: >30°C
Dielectric strength: >40 kV
Kb value: >70

ORASOLV P 540

VERY STRONG SOLVENT POWER

Formulated for the rapid and thorough degreasing of all very dirty surfaces. A3 type safety solvent. Can all provide protection between machining operations. Ideal for applications where mechanical parts are very greasy.

2540i2	1 l container
2540J1	5 l jerrycan
254001	20 l drum
2540U2	200 l drum

■ light green
Flash point: >61°C
Dielectric strength: >40 kV
Kb value: >70
Compatible bacs ultrasons

ORASOLV L2 581

RAPID EVAPORATION - HIGHLY ACTIVE

Solvent containing a comprehensive formula based on carefully selected raw materials. Powerful, multipurpose solvent with a very quick action and very effective on every greasy deposits and oils. Leaves a dry and clean surface after a few minutes.

2581U2	200 l drum

colourless
Flash point: 30°C
Kb value: >85

ORASOLV M1 511

MULTI-PURPOSE WORKSHOP SOLVENT

Specifically formulated for degreasing all mechanical parts and metal surfaces in workshops. Penetrates deeply and dissolves greasy deposits and sludge on mechanical parts.

2511i2	1 l container
2511J1	5 l jerrycan
251101	20 l drum
251105	60 l drum
2511U2	200 l drum

■ green
Flash point: >40°C
Dielectric strength: >40 kV
Kb value: >72

NATUR'SOLV 582

PLANT-BASED SOLVENT

High-tech new generation solvent, synthesised from plant-based raw materials. Excellent degreaser and tar remover. Penetrates deeply and dissolves greasy deposits and dirty oils. Protects against corrosion, VOC-free.

2582J1	5 l jerrycan
2582U2	200 l drum

colourless
Flash point: >150°C
Dielectric strength: >40 kV
Kb value: 80

ORASOLV F 820

TAR REMOVER

Thanks to its excellent dissolving and dispersing properties, ORASOLV F removes coke oven tar and all industrial residues (tar, oxidised grease, polymerised organic compounds etc.) from all metal surfaces. Specifically designed using highly refined compounds to provide optimal effectiveness and safety for tar removing operations in industrial environments.

2820N1	Container 1000 l

Flash point: 67°C
Kb value: 83

ORASOLV S2 5432

RAPID INK EVAPORATION

High-tech solvent. Soluble in water, allows easy rinsing of surfaces. Used neat for the cleaning and degreasing of numerous chemicals: printing ink, resin, glue. Very efficient solvent.

2543201	20 l drum
25432U2	200 l drum

colourless
Flash point: 30°C
Kb value: >150

ORASOLV S232 5232

INKS AND VARNISHES

Cleaning, dissolving, stripping of glues, paints, printing inks, varnishes, polymers and resins. Industry: cleaning of glues and varnishes. Printing industry: cleaning of inks, particularly those most resistant to cleaning. Cleaning of moulds in the plastic processing sector.

25232J1	5 kg jerrycan
25232U2	200 kg drum

Flash point: >75°C

SPECIAL SOLVENTS

KLEANER 503

DRY SOLVENT FOR PLASTICS

Dry cleaner and grease remover, quick drying. Cleaning of all devices and small mechanisms, contacts and printed circuits. Ideal to clean any difficult to reach and fragile surfaces. Highly concentrated grease dissolving ability. Does not contain chlorinated solvents. Does not damage fragile materials, labelling inks or plastics.

4503A4	650 ml aerosol

colourless
Scent: **apple**
Flash point: **< 21°C**

NDI 507

DRY SOLVENT

Indispensable for pre-mounting cleaning and prepainting preparation. Very rapid evaporation. Cleans metal and plastic surfaces (once a compatibility test has been carried out). Does not contain chlorinated solvent. Leaves a dry and clean surface.

4507A4	650 ml aerosol
2507J1	5 l jerrycan
2507U2	200 l drum

colourless
Flash point: **< 21°C**

ORASOLV 0 514

DRY - ULTRA-RAPID EVAPORATION

For surface preparation before painting or gluing. Dissolves resins, glues, inks and paints. Immediate evaporation. Leaves a completely clean and dry surface, without deposits. Cleaning of oxygen pipes and valves. Does not contain chlorinated solvent.

2514i2	1 l container
2514J1	5 l jerrycan
2514O1	20 l drum
2514U2	200 l drum

colourless
Flash point: **< 0°C**

ORANGE SOLVENT 550

DEGREASING TAR REMOVER

Cleans and dissolves grease. Tar and combustion residue remover and descaler. Protects mechanical parts by leaving a light, greasy film. Non-irritant. Excellent to remove labels. All uses.

4550A4	650 ml aerosol
2550i2	1 l container
2550J1	5 l jerrycan
2550O1	20 l drum
2550U2	200 l drum
2550N1	Container 1000 l

orange
Scent: **fruity**
Flash point: **62°C**
Kb value: **80**

SOLVORANGE C629

PLANT-BASED DEGREASER – RAPID EVAPORATION

Degreasing solvent specifically designed for cleaning operation and surface preparation, when there are severe pollutions. Effective to remove inks. Excellent oils and greases solvent.

C629/0210	210 l drum

colourless
Scent: **citrus**
Flash point: **< 21°C**

A 62 NU 517

HALOGEN-FREE

Solvent for the degreasing of very dirty mechanical parts and decontamination of radioactive particles. PMUC approved for nuclear and thermal power plants, hydroelectric facilities and subcontractors. Certified for the degreasing of low voltage (BT) and medium voltage (HTA) cables.

6517i4	1 l spray bottle
6517J1	5 l jerrycan
6517O1	20 l drum
6517U2	200 l drum

colourless
Flash point: **> 62°C**
Cl - F - S - Br: **< 200 ppm**
PMUC: **01-024**

NET FREINS 516

BRAKE CLEANER

Dry cleaner, grease remover for brakes. Evaporates very quickly, does not attack plastics. Powerful spray. Removes oil, brake pad residue etc. Suitable for brakes on cars, lorries, trailers, machine tools etc. Surface preparation before gluing or painting.

4516A4	650 ml aerosol
2516J1	5 l jerrycan

colourless
Flash point: **< 0°C**

EMULSIFIABLE PRODUCTS

ORASOLV 89 CLI 100 — 5382

ODOURLESS EMULSIFIABLE PRODUCT WITH HIGH FLASH POINT

High-tech emulsifiable solvent, VOC-free, synthesized from refined hydrocarbon products. Specific version, odourless and halogen-free, to work in nuclear environments.

- **blue**
- Flash point: **100°C**
- Kb value: **> 50**
- Cl - F - S - Br: **< 200 ppm**

25382U2	200 l drum

ORASOLV E — 539

EMULSIFIABLE PRODUCT

Extra-powerful solvent. Powerful tar remover , cleaning of burnt residues. Degreases heavily encrusted mechanical parts, cement, concrete floors etc. Cleans brushes impregnated with solvent based paints.

- **blue**
- Flash point: **> 40°C**
- Kb value: **> 78**

2539i2	1 l container
2539J1	5 l jerrycan
253905	60 l drum
2539U2	200 l drum

ORASOLV 89 CLI — 538

ODOURLESS EMULSIFIABLE PRODUCT

Powerful tar removing solvent formulated using odourless raw materials. Cleaning of heavily encrusted mechanical parts, combustion residue and traces of tar. Recommended for applications in the nuclear industry and for subcontracting as it is halogen-free.

- **blue**
- Flash point: **> 40°C**
- Kb value: **> 50**
- Cl - F - S - Br: **< 200 ppm**

2538J1	5 l jerrycan
253801	20 l drum
2538U2	200 l drum

COLZ'EMUL — 5820

PLANT-BASED EMULSIFIABLE PRODUCT

Powerful tar removing solvent formulated using plant-based raw materials. Cleaning of heavily encrusted mechanical parts, combustion residue, fuel oil and traces of tar. Also used as a non-stick and mould release agent: concrete, tar, fuel oil. VOC-free

- **Light yellow**
- Flash point: **> 100 °C**
- Kb value: **> 80**

25820J1	5 l jerrycan
25820U2	210 l drum
25820N1	Container 1 000 l

TAR OFF — 9539

POWERFUL EMULSIFIABLE PRODUCT

Highly effective product for the cleaning and removal of traces of tar, asphalt, combustion residue, even when burnt, as well as very stubborn grease and oil deposits. Public works companies, refineries, industrial boiler servicing companies, etc.

- **colourless**
- Scent: **strong**
- Flash point: **23°C**
- Kb value: **> 100**

2953901	20 l drum
29539U2	200 l drum

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FOOD GRADE SOLVENTS

ORASOLV A 568

VERY QUICK DRYING

Dry solvent. Penetrates deeply and completely dissolves greasy residues and glues.
Does not cause metal oxidation once dry. Soluble in water. Can be used for the cleaning of glue residues, adhesives, labels, blood or sugar in a food processing environment.

colourless
Flash point:
< 21°C

4568A4	650 ml aerosol
2568J1	5 l jerrycan
2568U2	200 l drum

ORASOLV T 544

RAPID EVAPORATION

For the cleaning of mechanical parts and stainless steel equipment. Excellent compatibility with gaskets, rubber and all plastics.
Cleaning of food and pharmaceutical facilities.

colourless
Flash point:
> 40°C
Dielectric strength:
> 40 kV

2544i2	1 l container
2544J1	5 l jerrycan
254405	60 l metal drum
2544U2	200 l drum

ORASOLV N 513

MULTI-PURPOSE, ODOURLESS

Degreases mechanical parts.
Cleans electrical and electronic components.
Evaporates rapidly when blown dry.
A3 type safety solvent.

colourless
odourless
Flash point:
> 60°C
Dielectric strength:
> 40 kV
Can be used in ultrasonic cleaning baths

2513i2	1 l container
251301	20 l drum
2513U2	200 l drum

ORASOLV R2 576

VOC FREE

Penetrates deeply and completely dissolves greasy deposits. Leaves a light, greasy film which protects metals. Ideal solvent for safe cleaning, protects operators and the environment.

colourless
Transparent liquid
Flash point:
> 100°C
Dielectric strength:
> 40 kV

2576i2	1 l container
2576U2	200 l drum

ORASOLV S1 543

INKS AND RESINS

High-tech solvent. Soluble in water, allows easy rinsing of surfaces. Used neat for the cleaning and degreasing of numerous chemicals: printing inks, resins and glues.
Very efficient solvent.

■ **green**
Flash point:
75°C
Dielectric strength:
> 40 kV
Kb value: **> 150**

2543i2	1 l container
2543J1	5 l jerrycan
254301	20 l drum
254305	60 l drum
2543U2	200 l drum
2543N1	Container 1000 l

STRIPPERS

DÉCAPANT PRO 6642

STRIPPER FOR ALL SURFACES

Very powerful industrial stripper specifically formulated for paint stripping in industrial and professional environments. Paint stripping from metal, wood and floors. Effective on recent and old oil-based, acrylic, epoxy, polyurethane, single- or two-pack paints. Does not contain CMR compounds.

liquid
Consumption:
6-8 m²/l

26642i2	1 l container
26642J1	5 l jerrycan
2664201	20 l drum
26642U2	200 l drum

DÉCAPANT 585

GEL

Stripping of graffiti from walls, carriages, road signs, glass, wood etc. Efficient on paints and felt-tip stains. Stripping of all types of paint from all vertical surfaces.

gel

4585A4	650 ml aerosol
2585J1	5 l jerrycan

VAND'X 9117

ANTI GRAFFITI

Solvent for removing graffiti (chalk, paint, wax, ink, spray can, marker, etc.) from painted or fragile surfaces. Ideal for removing graffiti from buses, underground trains and railway carriages as well as road signs without affecting their reflective properties.

fluid liquid
Odour:
distinctive
Flash point:
>55°C

0H9117i4	1 l spray bottle

ALCAPOUDRE 1140

POWDER STRIPPER

Powerful stripper for the removal of most paints by soaking. Soaking time depends on the chemical nature and thickness of the paint, soaking bath temperature and age of the coating. Active compound concentration (100%). It is totally soluble in water. Does not contain carcinogen, mutagenic or reprotoxic compounds. Powerful detergent.

white powder
Dosage:
50 to 80 g / l

21140S5	25 kg drum

ALKALINE DETERGENTS

ORANET B1 515

SUPER CONCENTRATED DETERGENT

Very powerful liquid detergent. Cleaning of car and lorry bodies, tarpaulins, painted surfaces; cleaning of heavily encrusted floors, machine frames etc. Can be used with a brush, in an automatic washing system, scrubber-drier or pressure washer.

2515i1	500 ml spray bottle
2515J1	5 kg jerrycan
251501	20 kg drum
251505	60 kg drum
2515U2	200 kg drum
2515N1	Container 1000 kg

■ **Light blue**
Dosage:
0,5 to 20 %
pH to 5 %: **12,5**

ORANET B15 546

READY-TO-USE DETERGENT.

Derived from the powerful ORANET B1 formula, ORANET B15 is a ready-to-use version with an accurate, optimised and standard dosage. It is recommended for workshops where operators are not authorised or equipped with the right tools to dilute the detergent. Cleaning of floors, machines and vehicles.

2546U2	200 kg drum

■ **Light blue**
pH: **12,5**

ORANET A 530

FOOD INDUSTRIES

Cleaning of tanks, truck tarpaulins, floors, machine frames, production and packaging of wine, beer, vegetables, meat, biscuits, dairy products etc. Can be used with a brush, in an automatic washing system, scrubber-drier or pressure washer.

2530i2	1 kg container
2530J1	5 kg jerrycan
253001	20 kg drum
253005	60 kg drum
2530U2	200 kg drum

colourless
odourless
Dosage:
0,5 to 20 %

ORANET C 531

FLOOR AND WALL DETERGENT

Powerful liquid detergent. Specifically designed for cleaning encrusted floors (concrete, tiled, painted etc.) in the automotive industry, dirty production units, changing rooms, showers etc. Can be used with a brush, scrubber-drier or pressure washer.

2531i2	1 l container
2531J1	5 kg jerrycan
253101	20 kg drum
2531U2	200 kg drum

■ **fluorescent pink**
Dosage:
1 to 20 %
pH to 5 %: **< 11**

ORANET S+ 533

NON FOAMING

Very powerful multi-purpose cleaner for scrubberdriers and high-speed or ultrasonic cleaning equipment. Does not foam, even under heavy agitation. Biodegradable. Used for difficult factory cleaning operations: floors, tiles, changing rooms etc.

2533i2	1 l container
253301	20 l drum

■ **orange-yellow**
Dosage:
2 to 15 %
8 % MAL
pH: **10,5**

MECAMATIC 9062

SUPER ALKALINE LIQUID DETERGENT

Cleaning and renovation of very greasy and dirty surfaces. Floor cleaning in petrol stations, garages, stills, distillers in the food processing industry. Reserved for professional use. Used neat or diluted. Recommended for use in washing machines.

29062J1	5 l jerrycan
2906201	20 l drum
2906205	60 l drum

colourless
liquid
pH to 10%: **13-14**

CLEAN

ALKALINE DETERGENTS

ORANET M 532

METAL PARTS

Powerful detergent for use on unpainted metal. Cleaning of vehicle bodies, housings, machine frames, mechanical parts. Can be used with a brush, in a bath or with a pressure washer. Perfectly cleans water-based paints and inks.

- yellow
- Dosage: **0,5 to 20 %**
- pH: < **9,8**

2532i2	1 l container
2532J1	5 kg jerrycan
253201	20 kg drum
253205	60 kg drum
2532U2	200 kg drum

ORANET M25 5325

READY-TO-USE DETERGENT

Ready to use biodegradable water-based degreaser for all metal mechanical parts where avoiding the risk of corrosion is important. Solvent-free. VOCfree. Dissolves grease, oil, carbon residue, sludge, scale etc. Enhanced anti-corrosive power. It is ready to use. ORANET M25 is the ideal substitute for solvent-based degreasers.

- yellow
- pH: < **9,5**

2532501	20 kg drum

ORANET F 536

DEGREASING CLEANER FOR BIOLOGICAL PARTS WASHER

Aqueous degreaser for all metal mechanical part to be degreased with parts washer. To use with ORAZYM microorganisms 5327.

- colourless
- Dosage: **pure**
- pH: < **9,8**

253601	20 l drum

ORAZYM 5327

CONCENTRATE OF MICROORGANISMS

Helps continuously break down the oil and grease in biological parts washers. Non-pathogenic microorganisms. ORAZYM contains microorganisms which constantly regenerate the bath via the BIOREMEDIATION process. Destroys and eliminates fatty residues in water-based parts washer basins. VOC-free. Dissolves grease, oil, sludge etc. Reduces the unpleasant odours of parts washers.

- blue tablets
- T°: **5 to 45°C**

25327B7	tubs of 10 tablets

QUICK SOL HP 9083

EXTREMELY POWERFUL DETERGENT

Very powerful liquid detergent and nicely perfumed. The complex formula combines a powerful detergent with a solvent to produce an extremely effective product. Dissolves and removes all traces of greasy deposits with amazing efficiency.

- fluorescent orange
- Scent: **pine**
- pH to 10%: **12-13**
- Dosage: **3 to 30 %**

29083i2	1 l container
29083J1	5 l jerrycan
2908301	20 l drum
2908305	60 l drum
29083U2	200 l drum

CITRON GP 9030

CITRUS EXTRACT DETERGENT

Scented liquid detergent for the effective cleaning of warehouses, garages, hangars, commercial premises, etc. Recommended for underground car parks and markets.

- orange florescent
- Scent: **orange**
- pH: **12-13**
- Dosage: **5 to 30 %**

2903001	20 l drum
2903005	60 l drum
29030U2	200 l drum

NEUTRAL DETERGENTS

ORANET N 537

PH NEUTRAL DETERGENT

Multi-purpose, VOC-free mild liquid detergent. Cleaning of lorry and car bodies, tarpaulins, painted surfaces, floors, machine frames, regular maintenance of aluminium parts, etc. Can be used with a brush, in an automatic washing system, scrubber-drier or pressure washer.

- translucent blue
- Scent: **fresh marine**
- pH (pure product): **7,5**
- Dosage: **5 to 40 %**

2537J1	5 l jerrycan
2537U2	200 l drum

NEUTRALISING POWDER 15156

ACID POWDER

Acid powder designed to neutralise alkaline pH cleaning baths prior to disposal or treatment. Non-corrosive powder. Easy to use. Rapidly and effectively neutralises baths with a pH ranging from 8 to 14. Recommended dose: approximately 5 kg for 400 litres (see TDS).

- white powder
- Completely water soluble

215156S1	5 kg tub

ACID DETERGENTS

DELICAL C027

FOOD EQUIPMENT DESCALER

Liquid descaler for water circuit and various materials, for food and agro-food industries (drinks dispenser, dishwasher…). Formula without hydrochloric acid, with a color indicator to validate the operation efficiency.

yellow
pH: **1**

C027/0001	1 l can
C027/0030	30 kg drum

ORARENOV 535

ALUMINIUM STAINLESS STEEL RESTORER/STRIPPER

Removes greasy deposits and surface oxidation from metallic parts. Ideal for aluminium and stainless steel cleaning and maintenance. Excellent stripping compound. Ready to use. Can be used diluted.

colourless
pH: **<1**

2535i2	1 kg container
2535J1	5 kg jerrycan
2535U2	200 kg drum

ORATARTRE 962

POWERFUL DESCALER

Non-flammable scale remover for all industrial devices, pipes, boilers, heat exchangers, heating coils, heater tanks. Does not cause metal oxidation, dissolves limescale deposits. Dissolves also cement stains, cleans tile joints, concrete mixer. Ready to use. Can be used diluted in water.

yellow
pH: **<1**

2962i2	1 kg container
2962J1	5 kg jerrycan
2962O1	20 kg drum
2962U2	200 kg drum

RUST AND CONCRETE REMOVER 744

EXTRA-STRENGTH DESCALER

Concentrated descaler for all industrial devices, pipes, boilers, heat exchangers, heating coils, tanks, radiators. Dissolves even the thickest limescale deposits. Dissolves cement stains, cleans tile joints, concrete mixer, masonry tools. Excellent stripping compound for all metals subject to surface oxidation. Ready to use. Can be used diluted.

pH: **<1**

2744J1	5 kg jerrycan
274401	20 kg drum
2744U2	200 kg drum

HAND CLEANERS

ORANGE CRÈME + 5802

CITRUS

Orange extract hand soap (solvent-free) with pumice stone for in-depth cleaning. Softens the skin, contains plant-based surfactants, glycerin and talcum powder. Very effective for cleaning grease, oil, asphalt, ink, paint, and rust.

orange
Scent: **citrus**
Complies with the **NFT 73-101** standard

25802J1	5 l jerrycan
25802KE	Box 18 x 5 l jerrycan

ORAMOUSS 5805

WATERLESS

Smooth, solvent-free foaming cleaner cleans hands without water and without drying. Ideal for sites that are far from water sources. Cleans hands without irritating them; does not leave hands greasy or dry. Smooth white foam, pleasantly scented, neutral pH, paraben-free and solvent-free. Economical: a small dab of cream is enough to remove the dirt. Ideal for sites that are far from water sources.

white
foam
Scent: **citrus**
pH: **neutral**

45805A1	210/150 ml aerosol

VSS 959

POWDER

Degreases and removes: ink, sludge, grease, oil, petrol, etc. Biodegradable cleaner made from pine cellulose and essential lavender and glycerin oils. Leaves the hands feeling soft. Suitable for all trades. Bucket size ideal for work site vehicles.

brown
Scent: **lavender**

2959S1	5 l bucket
2959O2	30 l drum
ACC007	Wall dispenser
700074	Shovel

ULTRA CLEAN 575

CLEANING WIPES

Wipes impregnated with a refreshing cleaning solution for the effective degreasing of hands and tools that have been heavily soiled by oil, grease, ink, paint, grass, diesel, etc. Cleans and leaves a pleasant scent on the hands. No rinsing required. Ideal for sites with no water.

Scent: **tangerine**

NEW SIZE

5575S10	Tub of 150 wipes

PHOSPHATING

ORAPHOS 50 963

PHOSPHATE TREATMENT DEGREASER

Phosphate treatment and degreasing cleaner for all metal parts. The phosphate treatment protects against rust, is long-lasting and can be painted over. Metallurgical, boiler-making and automotive industries, amongst others.

yellow
pH: **<1**
Dosage: **5 to 50 %**

2963i2	1 kg container
2963J1	5 kg jerrycan
296305	60 kg drum
2963U2	200 kg drum

ORAPHOS 60 964

PHOSPHATE TREATMENT RUST REMOVER

Phosphate treatment and rust removing cleaner. The phosphate treatment protects against rust, is long-lasting and can be painted over. Avoids the need for sand blasting or shot blasting. For renovating tanks, girders and a range of frames in the metallurgical, boiler making and automotive industries, amongst others. Can be used hot.

colourless
pH: **<2,5**
Dosage: **5 to 35 %**

2964i2	1 kg container
296401	20 kg drum
2964U2	200 l drum

SPECIAL CLEANERS

BRILLINOX 586

STAINLESS STEEL POLISHER AND RESTORER

Removes greasy films and stains while giving a lasting shine to cleaned surfaces: stainless steel, chrome etc. Polishing and protective properties. Dairies, breweries, machine frames, stainless steel structures, etc. Apply a small amount of product onto a cloth and start polishing. Polishing and protective properties.

colourless

4586A4	650 ml aerosol
2586J1	5 kg jerrycan
2586U2	200 kg drum

ACTI'SEPTYL 589

DECONTAMINATING CLEANING AGENT

Multi-purpose 6-in-1 product: Kills viruses, bacteria, algae and fungi, decontaminates and cleans. For cleaning, disinfecting* and decontaminating areas where foodstuffs are handled (fishmongers, canning plants, sugar refineries, beverage companies, etc.) or animals are present, hospitals, local authority facilities, campsites and swimming pools.

colourless
pH: **12,9**
Dosage: **0,01 to 4 %**

2589J1	5 l jerrycan
2589U2	200 l drum

* Use biocides with care.
Always read the label and product information before use.

CODE 79 579

DRAIN UNBLOCKER

Destroys and eliminates all blockages consisting of fibres, fatty substances, hair, cotton wool, human and animal hairs, organic compounds, sponges, cigarette butts, etc. Used to unblock wastes from sinks, washbasins, toilets, etc. and suitable for plumbing, sanitation and maintenance purposes. The very high density of this product provides an additional mechanical action on the blockage. No effect on septic tanks.
For professional use. Do not use on white PVC.

dark
Density: **1,82**

400021	1 l container

OURAGAN 5152

ALL IN ONE

Ready-to-use, multi-purpose disinfecting and deodorising detergent. Cleans and degreases all surfaces. For use in offices, workshops, changing rooms, kitchens, etc. Compliant with the EN 1040 and EN 1276 standards - bactericidal after 5 minutes - and the EN 1275 and EN 1650 standards - fungicidal in 15 minutes.

yellow green
Clear liquid
Scent: **menthol eucalyptus**
pH: **13,4**

25152i1	500 ml spray bottle

COILTRON 9031

RESTORER FOR AIR CONDITIONING COILS

Uses natural condensation to remove the dirt (grease, oil, lint, etc.) which is responsible for poor performance. Clean and helps maintain optimal heating and cooling efficiency without excessive use of energy. Spray directly into coil fins and filters diluted in water at a 1/3 ratio.

orange
Scent: **mint**
pH diluted to 10%: **10**
Dosage: **1/3**

2903101	20 l drum

SPECIAL CLEANERS

AQUATRON S220 — 9011

HEATING AND COOLING EQUIPMENT DESCALER

Eliminates limescale, rust and sludge from condensers, air cooling towers, pipes etc. in industrial environments. Contains a colour indicator for checking that all the limescale has been removed. Use a 1/10 dilution for corrective maintenance or 1/20 dilution for preventive maintenance.

- red
- pH: **1**
- Dosage: **1/10 to 1/20**

2901101	20 l drum

NU-COIL 101 — 9069

COIL CLEANER

Powerful coil restorer, rapidly disperses greasy and industrial deposits. Also eliminates traces of rust and limescale.
Improves performance by eliminating the layers responsible for energy loss.

- colourless
- pH: **13**

2906901	20 l drum

ANTISTATIQUE — 524

ANTI-STATIC CLEANING FOAM

Prevents dust build-up and prevents paper from jamming, sticking and clogging. Does not stain, quick evaporation. Designed for computers, offices, devices' screens, meters, plastic industry, synthetic furniture, automotive industry, electrostatic products packing…

- white
- foam
- silicone-free

4524A4	650 ml aerosol

NET MOUSS — 5002

CLEANING FOAM

Cleaning foam for every supports. Computers, TV, laminated piece of furniture, luminous signs, plastic or metallic bumpers, photocopiers… Designed for heavily soiled surfaces, metallic or PVC construction.

- white
- foam

45002A4	650 ml aerosol

NET'ECRAN — 502

CLEANING FOAM FOR GLASS SURFACES

Antistatic cleaner for all glass surfaces, screens, office equipment, computer screens, photocopier glass, projectors, TV sets, etc. Quickly wipes away after spraying. Wait until surface is dry to plug in again. Screens will become perfectly clean. Compatible with new generation screens.

- white
- foam

4502A4	650 ml aerosol
2502J1	5 l jerrycan

SANITOR — 9092

CLEANING CREAM

Slightly abrasive lotion for the cleaning of plastic, metal, composite surfaces, industrial glass, leisure, DIY and domestic applications. Cleans, deodorises, polishes and shines all types of surface, even the most fragile.

- pink
- cream
- pH: **7,5 - 8,5**

29092i2	1 l container
2909201	20 l drum

NET'DEX — 501

ELECTRICAL CONTACT CLEANER

To be sprayed for cleaning and oxidation removal of electrical contacts. No risk for electrical devices. Excellent cleaner and degreaser for all electrical mechanisms (Power down). Let it dry after use.

4501A4	650 ml aerosol TDS
2501J1	5 l jerrycan
2501U2	200 l drum

SPECIAL CLEANERS

EXTERIOR AIRCRAFT CLEANER A4423

CLEANER FOR AIRCRAFTS EXTERNAL SURFACES

Powerful multifunction detergent, designed for cleaning aircraft exteriors using wet washing or foam cleaning methods. Removes oil stains, grease stains and all dirt without a trace.

Light yellow
pH 1%: **10,8**

A442302	25 l drum
A4423U2	205 l drum

TAKrag® 1070XL YELLOW D3062Y

ANTI-DUST WIPES

This wipe has been especially designed for paint shops.These textile cleaning wipes are impregnated with a specific high quality resin which absorbs all dusts.

yellow
Dimensions:
40 x 60 cm

D3062Y-100X2	box of 200 wipes (100 bags of 2)
D3062Y-50X10	box of 500 wipes (50 bags of 10)

SOUFFLEUR 950

COMPRESSED AIR

Dust-removing aerosol with adjustable nozzle for printers, keyboards, optical readers, photos, videos, photocopiers, mechanical parts, etc. Mini compressed air duster that cleans without water. Dries all electro-mechanical equipment. Leaves parts perfectly dry after use.

Pressure: **6 bars**

4950A4	650 ml aerosol

GIVREUR 951

COLD GENERATOR

Generates intense cold. Multi-positions. De-seizes by thermal shock. Used in the IT industry to cool microprocessors and overheated hardware. Enables the detection of printed circuit board failures. Can also be used with mechanical devices to retract parts and allow shrink-fitting.

T°: **-52 °C**

4951A4	650 ml aerosol

RENOV'PLASTIQUE 525

SILICONE-FREE

Give your car interior a makeover with RENOV'PLASTIQUE. Revives and rejuvenates the appearance of your dashboard, giving it back its factory-fresh shine, all without polishing. Repels dust and has a pleasant fragrance.

Scent: **orange**

4525A4	650 ml aerosol

NET'CLIM 5496

CLEANS, DISINFECTS AND PERFUMES

Powerful disinfectant with a bactericidal action and very long-lasting and pleasant minty scent. NET CLIM is suitable for all air conditioning systems, including those found in cars, lorries, buses, offices, waiting rooms, etc. Microbiological activity in accordance with the AFNOR 72, 150 standard - Tested by the Pasteur Institute. Bactericidal activity compliant with E.N. 1040 after 5 mins at 20°C. Supplied with the 57cm extension and omnidirectional diffuser.

colourless
Scent: **mint**

45496A2	520 ml aerosol

PROTECTEUR ARMES G.C C647

PROTECTOR FOR FIREARMS CANNONS

Hydrophobic product, repels humidity, gives protection against oxidation and corrosion to the surfaces. It can be used for other metallic parts pr otection. Non-corrosive to steel, cast iron, aluminium, copper, zinc, stainless steel. It is also compatible with plastics such as lyethylene, polypropylene and PVC.

colourless
Clear liquid

C647/0012	650 ml aerosol

AV 33 813

FIREARM CLEANER

Cleans, prevents corrosion and lubricates the firing pin, bore, breech, muzzle, barrel, trigger, bolt, rifling, striker, etc. Neutralises and eliminates powder combustion residue. For all firearms: shooting sports, armed forces, police, customs, etc.
For preventive and curative applications.

homogeneous yellow
Clear liquid
T°: **-60 to +200°C**

4813A8	270 ml aerosol
2813i1	500 ml spray bottle

FOR AN ESTIMATE, ADVICE
OR SPECIFIC REQUEST

TEL.: +33(0)4 74 40 20 20
FAX: +33(0)4 74 40 20 21

CONTACT@ORAPI.COM

USE

DEGREASE
CLEAN
WASH

OWASHER
New generation of Biological Parts Washer

by ORAPI PROCESS

BIOLOGICAL PERFORMANCE

Biological parts washers clean your parts without any solvent by respecting the user's health and the environment.

The biological parts washer works with the principle of natural regeneration which use the microorganisms to simply transform pollutants into food and energy sources.

This process ensures a cost effective degreasing solution.

OPERATOR'S HEALTH

Solvent free.

Optimal hygiene and safety conditions.

SAVINGS

Consumable cost control. Microorganisms constantly regenerate the bath: no frequent bath draining.

ENVIRONMENT

Minimize waste and protect the environment.

PLASTICS

BIOLOGICAL PARTS WASHER OWASHER

The parts washer keeps the bath warm at 38°C, it is equipped with several cleaning options (brush, soaking), with a stainless steel filtration system and oxygenation system.

Microorganisms constantly regenerate the bath: no frequent bath draining and you minimize the waste disposal costs.

	1	2	3
	700091XXS	700091XS	700091
Part Washer dimension (width x length x height, mm)	822 x 530 x 1050	795 x 600 x 975	905 x 650 x 1 110
Cleaning table dimension (width x length x height, mm)	550 x 430 x 150	690 x 430 x 190	790 x 420 x 180
Tray useful size (width x length x height, mm)	260 x 240 x 80	260 x 270 x 140	790 x 420 x 90
Tank Volume (Litre)	40	60 to 80	60 to 100
Soaking Capacity (Litre)	4	11	31
Payload (kg)	30	80	100

Hose + brush CSEQFO000111-3
Brush CSEQFO000102-3
Filters CSEQFO000125
Others Contact us

ORANET F & ORAZYM

STAINLESS STEEL

DEGREASING PARTS WASHER

Heated washer made of stainless steel for use with ORAPI's ORANET M532. Can be used with or without additional enzymes (biological action). Has a hot bath closing lid, which prevents evaporation loss.

	1	2	3
	700085	700085XL	700085XXL
Part Washer dimension (width x length x height, mm)	845 x 640 x 1020	1280 x 700 x 1020	1600 x 700 x 1020
Worktray (mm)	890	890	890
Bath volume (L)	80 to 100	80 to 100	80 to 100
Max load (kg)	40	40	40
Washing chamber (L)	~50	~50	~50

ORANET M

WASHING MACHINES

WASHING MACHINE

Degreasing parts washer that cleans and degreases parts placed in the basket.

	1	2	3
	700084	700084-740	700084-1140
Washing machine dimension (L x l x H mm)	700 x 900 x 900	1035 x 955 x 1130	1470 x 1355 x 1320
Basket diameter (mm)	600	740	1140
Bath volume (L)	70	90	210
Permissible load* (kg)	100	400	400

*Load uniformly distributed in the basket.

ORANET S+

Non-contractual photos. 1 year warranty with an advised use of ORAPI products.

TRADITIONAL **SOLVENTS PARTS WASHER**

700051

DEGREASING PARTS WASHER

Pump parts washer designed for use with solvents.

Prevents evaporation loss. Speeds up cleaning by using a hollow brush continuously filled with product via a pneumatic pump. Recovers the product when the clean parts are drained.

Designed to be placed directly onto a 200 l drum (Can be used on smaller 60 l drums with the 700057 adapter).

Pump parts washer	700051
Replacement pumping system*	700055
Replacement hose	7RACCORD
Brush	700056

ORASOLV P

700050

DEGREASING PARTS WASHER
ELECTRICAL PARTS WASHER
DESIGNED FOR USE WITH SOLVENTS

Prevents evaporation loss. Speeds up cleaning by using a hollow brush continuously filled with product via an electrical pump. Recovers the product when the clean parts are drained.

Designed to be placed directly onto a 200 l drum (Can be used on smaller 60 l drums with the 700057 adapter).

Electrical parts washer	700050
Replacement pumping system*	700053

ORASOLV P

*Pumping systems comes with: vacuum hose + strainer, pump, distribution hose + brush

40 L MIXED **PARTS WASHER**

700061

DEGREASING PARTS WASHER
40 LITRES ELECTRICAL PARTS WASHER

Ideal parts washer for maintenance workshops. Can be moved from one workshop to another easily. Designed to be used with 40 l of solvent or detergent, which limits chemical risks. Speeds up cleaning by using a hollow brush continuously filled with product via an electrical pump, and a soaking basin. Recovers the product when the clean parts are drained. Easy to drain.

Electrical parts washer	700061
Rubber hose	700079
Pump	700066
Brush	700056

ORASOLV P & ORANET M

TRADITIONAL **DETERGENT PARTS WASHER**

700057

ADAPTER

ORANET M

700058

DEGREASING PARTS WASHER
DESIGNED FOR USE WITH DETERGENTS

Ideal system combining safety of operation and protection of the environment: no heating, no electricity. Prevents evaporation loss. Speeds up cleaning by using a hollow brush continuously filled with product via a pneumatic pump. Recovers the product when the clean parts are drained.

Electrical parts washer	700058
Replacement detergent pump*	700064
Adapter	700057

HIGH **PRESSURE PART WASHER**

700088

HIGH PRESSURE HEATING PART WASHER

A solid, full stainless steel structure. Equipped with a membrane pump, an electric pump, a resistor and a filtration system. Totally enclosed system which doesn't require specific protection for the users. Provides a quick degreasing even for the most complex parts.

Part washer:
Length: 70 cm
Width: 90 cm
Height: 162,5 cm
Pump flow: 20 litres/minutes
Tank capacity: 90 l
heating temperature: up to 50°C

Working plan:
Width: 84 cm
Length: 64 cm
40 kg capacity
Pressure: 30 bars

ORANET M

TRAY **PART WASHER**

700090

HIGH CAPACITY DEGREASING PART WASHER

Made out of stainless steel, with a part of the sink dedicated to soaking. The Part Washer limits solvent evaporation when not used thanks to its cover. Ideally equipped with an air pressure gun.
105 litres capacity sink.

Part washer:
Length: 112 cm
Width: 60 cm
Height: 93 cm

Soaking and cleaning sink:
Length: 92 cm
Width: 52 cm
Depth: 45 cm

ORASOLV P

BRAKE WASHER - SOLVENT

700097

BRAKE WASHER - SOLVENT

The brake washer for heavyweights is equipped with a pneumatic pump, spraying, a multi-jet self-cleaning brush with an adjustable flow and a flat-head low-pressure air dryer.

Dimension: 575 x 775 x 280 mm
Tank volume: 40 litres
Pump flow: 7,6 litres to 5,5 bars
Congestion: folding handle
Additional tray: anti-wave interior system.
Tare weight : 25 kg

BRAKE WASHER – LESSIVIELLE

700099

BRAKE WASHER LESSIVIEL

The brake washer is fully designed in stainless steel, it adapts itself to all washing situations. This mobile part washer avoids solvent spills and captures dusts and fibres into its washing solution, in order to protect operators' health.

Dimension : 750 x 600 x 1030 mm
Tray volume:750 x l 500 x 100 mm
Tank capacity : 30 L
Weight : 30 kg
Maximum load: 30 kg
Air supply pressure: 6-10 bar

Non-contractual photos. 1 year warranty with an advised use of ORAPI products.

LUBRICATE

OILS
GREASES
PASTES
VARNISHES
POWDERS

WHY LUBRICATE?

1. To reduce friction
2. Reduce overheating
3. Reduce wear
4. Prevent corrosion
5. Improve efficiency
6. Extend the life of mechanisms

HOW TO LUBRICATE?

ORAPI's tribologists are there to advise you.

Friction can be reduced in a number of ways; ORAPI offers 4 types of product to cover all your requirements.

1 - OILS

In-depth lubrication in complex mechanisms (chains) or closed mechanisms (gearboxes) requires the use of oil.

The main benefit is the natural elimination of the heat energy generated by friction which affects the smooth running of the machines. We also offer a range of oils for metal working.

2 - VARNISHES AND POWDERS

"Dry" lubrication is primarily recommended for dust-filled environments and exposure to severe cold down to -200°C.

Our engineers can provide you with 2 types of viscoplastic solution, which they recommend for use in mechanisms where oil cannot be contained.

3 - GREASES

More than 80 different types of grease have been developed to respond to all the requirements of our 10,000 customers: speed, heat, humidity, oxidising environments, heavy loads etc.

You can also discover our unique range of greases based on nanotechnologies: NANOLUBRICANTS.

4 - PASTES

Comprehensive ranges of mounting and anti-seize pastes to keep fretting and tribocorrosion problems to a minimum.

They also help improve thermal and electrical conductivity by using diversified and first-choice mineral fillers in terms of grading and purity: zinc, aluminium, copper, graphite, molybdenum disulphide, ceramic and of course, NANOLUBRICANTS.

FOR AN ESTIMATE, ADVICE
OR SPECIFIC REQUEST

TEL.: +33(0)4 74 40 20 20
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CONTACT@ORAPI.COM

FOCUS ON
GREASE

ORAPI's tribologists pay particular attention to the selection and use of high-performance additives that they incorporate into our greases.

These can be liquids or solids such as MoS2, graphite, PTFE and NANOLUBRICANTS and have a significant impact on the performance of the greases by: reducing the friction coefficient, increasing resistance to EP (extreme pressure), minimising material wear, improving adhesion, protecting against the premature oxidation of the grease, protecting metals against corrosion, etc.

GRADES

Penetration at 25°C

MECHANISM TO BE LUBRICATED	CENTRALISED GREASING	GEARS	BEARINGS	SEALING
Type of grease	Fluid grease	Soft grease	Standard grease	Thick grease
NLGI grade no.	0-00	1	2	3
(tenths of mm)	355-430	310-340	265-295	220-250

The grade varies depending on the temperature.
The grade increases for cold work - The grade decreases for hot work (the grease softens).

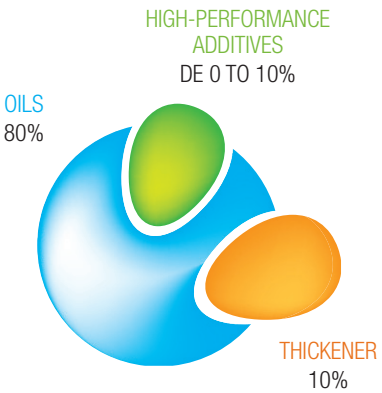
COMPOSITION

Grease consists of
3 components

The combined characteristics of these 3 components give grease its own characteristics.

The ratios are different for a paste:

High-performance additives (solids) can reach 60%



PERFORMANCE

Grease performance is assessed by 2 tests:

- Extreme pressure: 4-ball test: load resistance of the lubricating film 40 to 800 kg. Result in kg.
- Anti-wear test
  Wear resistance 40 kg / 1 hour. Result in mm.

OILS

These can be mineral or synthetic. Synthetic lubricants currently represent only a small percentage of the overall lubrication market, but this proportion is rising.

THICKENERS

Help obtain the desired consistency thanks to simple or complex soaps, or silica, bentone or polyurea.

DRY LUBRICATION

MOLYSPRAY 700

MOLYBDENUM DISULPHIDE - MOS2

Treatment and pre-treatment of all mechanisms and parts requiring assembly. Dry lubrication of small mechanisms. Facilitates running-in. The spray application gives a uniform layer. Works very well in extreme cold weather and dusty atmospheres.

■ Dark grey
T°: **-200 to +450°C**

4700A4	650 ml aerosol

GRAPHENE PMUC 702

GRAPHITE

For the pre-treatment of surfaces or parts subject to very high temperatures or dusty atmospheres. Dries at room temperature. Excellent resistance of dry film. For stainless steel assembly with itself, tin mould releasing. Lubrication of runners, rods, glass etc.

■ black
T°: **-70 to +900°C**
Grading: **5 µm**
PMUC: **04-0104**

4702A4	650 ml aerosol
6702A4 PMUC	650 ml aerosol

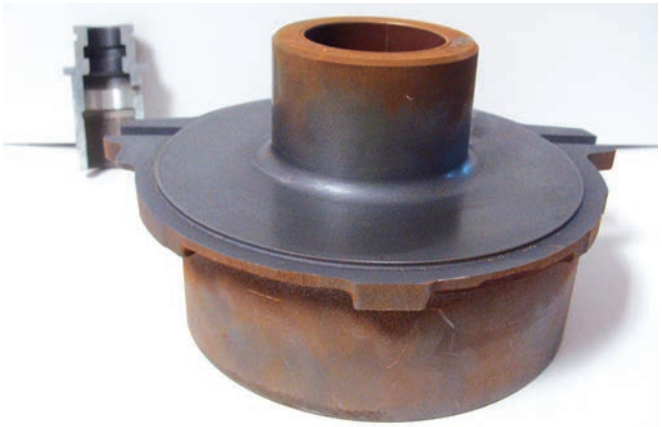
TEFLISS 2 701

PTFE

Clean and dry PTFE-based lubricant. With a very low friction coefficient. Water repellent, does not stain. For all mechanisms requiring a thin layer of micronised PTFE: sliding panels, saw blades, runners, conveyor belts, rotary and sliding joints, copying machines, reels etc.

□ white
T°: **-120 to +250°C**

4701A4	650 ml aerosol



BULK POWDERS

POUDRE 2115 721

POWDER GRAPHITE

Micronised graphite powder. To be used pure, as additive to lubricants, plastics… in order to increase their efficiency. Electrical conductor. Excellent dry lubricant for low and high temperatures and dusty atmospheres.

■ black
T°: **-70 to +900°C**
Grading: **5 to 7 µm**

3721S3	1 kg tub
3721H4	15 kg bag

POUDRE PTFE 645

PTFE POWDER

Dry lubricant based on purified and micronised PTFE. Excellent lubricant properties. Highly inert towards chemicals, compatible with rubbers. Sliding agent for assemblies (joints, fasteners, valves). Dry lubrication in case of extreme conditions. Additive for lubricants.

□ creamy white
T°: **-120 to +250°C**
Grading: **1 to 7 µm**

3645B7	1 kg tin

OR 05 724

MOLYBDENUM DISULPHIDE POWDER

To be applied with leather cloth, brush, or drum on rectified pieces, superficially thematically treated. Sticks to metal and leaves a dry lubricating film. Facilitates running-in. Can be used for pieces pre-treatment.

■ black
T°: **-200 to +450°C**
Grading: **6 µm**

3724B7	1 kg tin
3724S1	5 kg tub
3724U0	100 kg drum

VARNISH

VERGRAF 704

GRAPHITE-BASED DRY VARNISH

Dry graphite-based varnish designed to reduce the friction coefficient on all types of surface. Dries at room temperature.
For pre-treatment of surfaces and pieces submitted to high temperatures in dusty atmosphere.
Lubrication of runners, cylinder rods, hinges, foundry moulds, glass etc. Particularly suitable for combating fretting wear.

■ black
T°: **-70 to +900°C**
Grading:
5 µm

4704A4	650 ml aerosol

A20N NF 717

HALOGEN-FREE GRAPHITE VARNISH

Colloidal dispersion of micronised graphite in a binder. Forms a dry, smooth and adherent lubricating film. Resists to abrasion and gives metallic moving parts an excellent lubrication. Facilitates assembling and enables non-destructive dismantling. In particular stainless steel/stainless steel assemblies. Ideal in dusty atmospheres and for applications in very cold environments.

PMUC

■ black
T°: **-70 to +900°C**
Cl - F - S - Br :
< 200 ppm
PMUC: **04-0106**

6717i2	1 l container

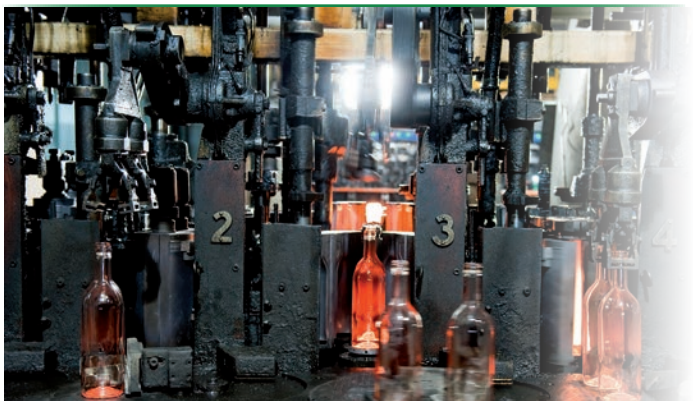
GRAPHITE WB 7042

NON-FLAMMABLE GRAPHITE DRY DUBRICANT

This odourless and non-toxic water-based product is designed to be used as pre-treatment for forging, stamping and lubrication of some mechanisms.

■ black
T°: **-70 to +900°C**
Grading :
< 10 µm

47042A4	650 ml aerosol



VER L 149/5 8285

WATER-BASED PTFE VARNISH

Water-based PTFE bonded coating designed to reduce the friction coefficient on all types of surface. Particularly suitable for protection against fretting wear. Extremely durable treatment thanks to its plasticity. Treatment of mechanical pieces in steel, aluminium, plastic, polymer. Used for the lifetime lubrication of plastic mechanisms in the electricity industry.

■ blue
pH: **> 9,5**
Density: **1,31**
ES: **51%**

28285J1	5 kg jerrycan

EMOS 60 720

MOS2 THERMOSETTING VARNISH

Dry MoS2 lubricant based on thermosetting resins. Lubricates and protects all metal surfaces against oxidation; withstands solvents and acids. Excellent salt spray resistance. Excellent dry lubricant for gears, cylinders, jacks, threaded screws, pinions, racks, screws etc. Aeronautical equipment, lifetime lubrication of all hinges exposed to low temperatures and particle-charged environments.

■ black
T°: **-100 to +250°C**
Viscosity:
80 ± 10 cP
Grading:
6 µm
Setting: **160°C**
40 minutes

3720B7	1 kg tin
3719i2	1 l container (diluent)

VIMOS 70 726

MOS2 VARNISH

Dry lubricating coating for all metals and plastics. Protect from oxidation. Not soluble in solvents and hydrocarbons. Polymerises at room temperature. Excellent dry lubricant for threaded pieces, spigots, small gearings, hinges, any mechanism in dusty atmosphere. Lubrication of valves and military hinges submitted to extreme cold. Efficient even on mechanism operating very occasionally.

T°: **-100 to +150°C**
Viscosity:
400 ± 100 cP
Grading:
6 µm

3726B7	1 kg tin
3719i2	1 l container (diluent)

ANTI-SEIZE PASTES

LM 20 — 614

GRAPHITE-BASED

Exceptional adhesion, prevents oxidation, ensures perfect sealing of gaskets and connections. Lubrication of mechanisms, joints, taps, valves, bearings, operating in humid environments and at high temperatures. Facilitates assembling and disassembling.

■ black
T°: **-40 to +900°C**
4-ball EP: **400 kg**

3614T4	200 g tube
3614B7	1 kg tin
361402	25 kg drum
3614U1	180 kg drum

LM 50 — 604

HIGH-CONCENTRATION GRAPHITE

Graphite assembly paste, stable at very high temperatures. For axles, sleeve fittings, hinges, rollers, oven doors, forging and foundry tools etc. Facilitates assembly and dismantling thanks to its high graphite content.

■ black
T°: **-40 to +900°C**

3604B7	1 kg tin

GRN — 613

HALOGEN-FREE GRAPHITE

Chlorine-free, sulphur-free and fluorine-free anti seize paste, stable at high temperatures. Mechanical assemblies. Facilitates the running-in and dismantling of parts.

PMUC

■ black
T°: **-80 to +900°C**
4-ball EP: **250 kg**
Cl - F - S - Br : **< 200 ppm**
PMUC: **04-016**

6613A4	650 ml aerosol
6613T4	200 g tube
6613B6	500 g tin

MOB 30 — 610

MoS2 / GRAPHITE

Easy to use, for surface pre-treatment and mild-greasy lubrication, before mounting; for all mechanisms and parts that need to be lubricated afterwards. It makes mounting and breaking in easier. Mechanical warehouses, maintenance services.

■ black
T°: **-40 to +450°C**

3610T4	200 g tube
3610B7	1 kg tin

PATE SPRAY — 603

MOS2 IN A THIN LAYER

Easy-to-use spray can for the application of MoS2 paste in thin and precise layers. Reinforced extreme pressure power. Lubrication of tooling, for all mounting and mechanical parts.

■ black
T°: **-40 to +450°C**

4603A4	650 ml aerosol

MOB 60 — 611

MOS2 HIGH-CONCENTRATION GRAPHITE

Strong formula. The mechanics use this paste for the most difficult fixings. For breaking in and pretreatment, use this paste with a leather cloth or with a brush. Strong resistance to extreme pressure. For all hard assembly. Prevents fretting corrosion. Mechanical workshops, fixing, maintenance.

■ black
T°: **-60 to +450°C**

3611T4	200 g tube
3611B7	1 kg tin

ANTI-SEIZE PASTES

NANOLUBRICANT® 2015

HIGH TECHNOLOGY

Mounting, assembly and surface treatment paste. Protects against corrosion, seizing and wear caused by micro-movements. Prevents welding problems and all types of corrosion thanks to the Rehbinder effect.

■ black
T°: **-40 to +300°C**

42015A4	650 ml aerosol
32015B3	200 g tin with brush
32015B7	1 kg tin
3201551	5 kg tub

NANOLUBRICANT® 2030

WHITE, HIGH TECHNOLOGY

Anti-seize paste specifically developed for applications in the food industry or when a clean paste is required. Resulting from ORAPI's NANOLUBRICANT® technology, this paste has outstanding anti-wear and anti-seize properties, 3 to 10 times greater than standard market pastes.

□ white
T°: **+150°C**
NLGI Grade: **1**

32030B7	1 kg box
32030S1	5 kg tub

NANOLUBRICANT® 2040

WHITE, WATERPROOF

Clean mounting, assembly and surface treatment paste. Protects against corrosion, seizing and wear caused by micro-movements and inclement weather. Withstands high temperatures and facilitates dismantling. Good adhesive properties, does not run.

□ white
T°: **-60 to +200°C**
4-ball EP: **800 kg**
Wear: **<0,4 mm**

42040A4	650 ml aerosol

BA 640

FOOD INDUSTRY

White and clean assembly and mounting paste. Contains very high technology lubricating powders. Does not stain. Product especially formulated for maintenance workshops. To treat tooling, tools, pieces working at high temperatures: plastic moulds, in food industry, in paper mills…

□ white
T°: **-25 to +1000°C**

3640T4	200 g tube
3640B7	1 kg tin

NB PMUC 643

WHITE, HALOGEN-FREE

Anti-seize boron nitride paste for assemblies exposed to very high temperatures. Mounting of all assembled parts that will need to be dismantled easily. Chlorine-free, fluorine-free, sulphur-free.

□ white
T°: **-80 to +1400°C**
Cl - F - S - Br : **< 200 ppl**
PMUC: **04-0107**

6643B4	Tin with brush 250 ml
6643B6	500 g tin
4643A4	650 ml aerosol

COPA 1100 679

COPPER / GRAPHITE

Copper and graphite assembly and mounting paste for heavy loads and very high temperatures. Excellent anti seize resistance between steel / steel surfaces submitted to high pressures, easy to apply, very sticky, resists to water, vapour and aggressive atmospheres. Threads, fastenings, bolting, gaskets.

■ black
T°: **-60 to +1500°C**

3679T4	200 g tube
3679B7	1 kg tin

HT 600 601

ALUMINIUM

Contains a special base and micronised aluminium. Particularly effective for treating: tools, axles, rollers, slow movements and any part that must be dismantled.

■ aluminium grey
T°: **-40 to +650°C**

4601A4	650 ml aerosol
3601T4	200 g tube
3601B4	250 ml tin with brush
3601B7	1 kg tin
3601S1	5 kg tub
360104	50 kg drum
3601U2	200 kg drum

ANTI-SEIZE PASTES

TM 900S 600

COPPER

Copper-based assembly paste for surface treatment and lubrication. Specifically designed to treat: tools, axles, rollers, slow-moving parts and all parts that will need dismantling. Recommended for pouring nozzles in steelworks. Electrical and thermal conductor.

■ copper
T°: -40 to +1100°C

4600A4	650 ml aerosol
3600B4	250 ml tin with brush
3600C4	400 g cartridge
3600B7	1 kg tin
360002	25 kg drum
3600U1	180 kg drum

HT900 637

COPPER

Anti-seize product formulated to leave a thin lubricating layer. For threaded parts that will need to be assembled and dismantled after being exposed to very high temperatures. Refineries, dyeworks, oven, marine…

■ copper
T°: -40 to +1100°C

3637T4	200 g tube
3637B7	1 kg tin
3637S1	5 kg tub
3637U2	200 kg drum

HTCU 647

COPPER

Copper paste specifically designed for the rail sector providing corrosion protection for threaded assemblies on carriages, engines and rail tracks.

■ copper
T°: -40 to 1100°C

3647T4	200 g tube
3647B7SNCF	1 kg tin

THERMALLY CONDUCTIVE PASTES

PC 195 641

WHITE

Provides sealing and thermal transfer of heat energy while preserving the static and dimensional stability of protected devices. Alternators, starters, electrical and electromechanical devices.

□ white
T°: -40 to +200°C
Silicone-based

3641C3	300 g cartridge
3641B7	1 kg tin
364102	25 kg drum
364104	50 kg drum

L 362 6412

HIGH EFFICIENCY

Heat-conducting assembly and sealing paste. Any domain where thermal conductivity between two surfaces must be improved, heat energy transfer must be facilitated and the transfer surface area must be increased. Alternators, starters, probes, electrical and electromechanical devices, heat sensors etc. Assembly, lubrication, sealing etc.

■ black
T°: -40 to + 180°C
Thermal conductivity: **0.8 W/m.K**
NLGI Grade: **3**

36412C3	300 g cartridge
3641202	25 kg drum

STANDARD GREASES

CT 10 677

MULTI-PURPOSE LITHIUM GREASE

EP2 multi-purpose lithium grease suitable for general lubrication, maintenance and the automotive industry in applications that are not overly demanding. Lubrication of chassis, farm equipment, civil engineering equipment, etc.

■ light amber
T°: -25 to +130°C
NLGI Grade: **2**
4-ball EP: **250 kg**
DN Factor: **350 000**

3677C4	400 g cartridge
3677B7	1 kg tin
367704	50 kg drum
3677U1	180 kg drum

CT 4 608

MOS2 GREASE

Greasing under very heavy loads, effectively combats wear thanks to its concentration of highquality MoS2. Mechanical construction, automotive industry, arms industry etc. Safe lubrication of bearings.

■ grey/black
T°: -30 to +165°C
NLGI Grade: **2**
4-ball EP: **315 kg**
DN Factor: **350 000**

4608A4	650 ml aerosol
3608T4	200 g tube
3608C4	400 g cartridge
3608B7	1 kg tin
360802	25 kg drum
360804	50 kg drum

STANDARD GREASES

CT 12 G — 625

GRAPHITE GREASE

Greasing under very heavy load, fights effectively against wear thanks to the presence of micronised graphite. Has an extremely low coefficient of friction. Humid conditions and mechanisms subject to shocks. Ideal for applications in the automotive industry, trucks and general industry.

3625C4	400 g cartridge
3625B7	1 kg tin
3625O2	25 kg drum

■ **black**
T°: **-30 to +130°C**
NLGI Grade: **2**
4-ball EP: **315 kg**
DN Factor: **350 000**

CT 14 — 602

MULTI-PURPOSE, LITHIUM-BASED

Multi-purpose EP2 grease for bearings and mechanisms subject to heavy loads. Ideal for industrial applications, automobiles, trucks etc.

4602A4	650 ml aerosol
3602T3	100 g tube
3602C4	400 g cartridge
3602CL	Lube shuttle 400 g
3602B7	1 kg tin
3602S1	5 kg tub
3602O2	25 kg drum
3602O4	50 kg drum

■ **light amber**
T°: **-30 to 165°C**
NLGI Grade: **2**
4-ball EP: **315 kg**
DN Factor: **350 000**

CT 140 — 680

FLUID GREASE FOR CENTRALISED LUBRICATION

Multi-purpose fluid EP grease for bearings and mechanisms subject to heavy loads and requiring lubrication via a centralised system. Reinforced protection against extreme pressure and wear. Ideal for applications in the car manufacturing, HGV, and industrial sectors.

3680S1	5 kg tub
3680O2	25 kg drum
3680O4	50 kg drum
3680U1	180 kg drum

■ **amber**
T°: **-40 to +165°C**
NLGI Grade: **0-00**
4-ball EP: **315 kg**
DN Factor: **350 000**

CT 143 — 743

LUBRICATION/SEALING

Valves and taps can be sealed and lubricated in a single operation thanks to the thick, pastelike consistency of this product. Multipurpose EP3 grease for bearings and other mechanisms that require a thick grease. Ideal for industrial applications, cars and trucks.

3743B7	1 kg tin
3743O4	50 kg drum

■ **amber**
T°: **- 30 to +165°C**
Drop point: **180**
NLGI Grade: **3**
4-ball EP: **315 kg**
DN Factor: **350 000**

CT FLON — 607

PTFE GREASE

Teflon ® grease for lubrication under heavy load. Lubricating effect reinforced by Teflon, noise decrease, chemically inert. Ideal for lubrication on plastics. Good water resistance.

4607A4	650 ml aerosol
3607C4	400 g cartridge
3607B7	1 kg tin
3607S1	5 kg tub

■ **light beige**
T°: **-20 to 140°C**
4-ball EP: **315 kg**
DN Factor: **350 000**

GRAISSE UNIVERSELLE — 635

CLEAN GREASE

Adhesive, non-drip, odourless, corrosion inhibiting grease, compatible with all materials. Moisture resistant. For doors, locks, hinges, runners, chains, rubber or plastic parts, household appliances, tools etc.

4635A4	650 ml aerosol

colourless
T°: **-30 to +150°C**
Drop point: **none**
DN Factor: **350 000**

SPECIAL GREASES

ENG CB 612 — 612

CABLES/GEARS

Soft grease for cables, gear reducers, bevel and hypoid gears, tooth couplings. Quarries, public works, crushers, ski resorts etc. Excellent anti-wear properties, considerably lengthens the lifespan of gear teeth.

4612A4	650 ml aerosol
3612C4	400 g cartridge
3612S1	5 kg tub
361205	50 kg drum
3612U1	180 kg drum

■ **light brown**
T°: **-50 to +220°C**
4-ball EP: **780 kg**
NLGI Grade: **0**

CT BIO — 687

BIODEGRADABLE

Multi-purpose grease for outdoor use: locks, barriers, agriculture, forest management, cable cars, public works, port areas etc. Excellent water and storm water resistance.

3687C4	400 g cartridge
368702	25 kg drum

■ **green**
T°: **-25 to +145°C**
4-ball EP: **315 kg**
DN Factor: **500 000**

SPECIAL GREASES

CT 300 — 628

INFUSIBLE GREASE

Grease with outstanding extreme pressure lubricating properties at high temperatures. Not soluble in water. No drop point, does not run, even if subjected to overheating. Recommended for steelworks: rolling mills, rubber, cardboard, paper industries etc. for main bearings, roller bearings etc.

- light brown
- T°: **-40 to +210°C**

3628C4	400 g cartridge
3628S1	5 kg tub
362804	50 kg drum

CT 698 — 698

HYDROCARBON CONTACT GREASE

Lubrication in the presence of petrol and hydrocarbons, loading arms in refineries, vehicle petrol caps. Valve lubrication in the chemical and petrochemical industry.

- blue
- T°: **-35 to +75°C**
- Water resistance: **very good**

3698C4	400 g cartridge
369804	50 kg drum

CT 520 — 630

VALVE GREASE FOR THE PETROCHEMICAL INDUSTRY

Sticky highly adhesive grease, especially appropriated for valves and taps in chemical and petrochemical industry, furthermore in very cold areas.

- white
- T°: **-26 to +250°C**
- Drop point: **none**
- Water resistance: **very good**

3630B7	1 kg tin

CT 51 NF — 629

HALOGEN-FREE

Versatile, multi-purpose grease for all types of mechanism: bearings, hinges, runners etc. Water and solvent resistant.

- white
- T°: **-20 to +160°C**
- Cl - F - S - Br: **< 200 ppm**
- PMUC: **19-0533**

6629T3	100 g tube
6629C4	400 g cartridge
6629B7	1 kg tin
662902	25 kg drum

SILVER GREASE — 634

ELECTRICALLY CONDUCTIVE GREASE

Lubricant which considerably reduces the wear of electrical contacts while ensuring perfect electrical continuity. For circuit breakers, isolators, switches, braids, etc. Arc resistant.

- beige
- T°: **-20 to +250°C**

3634B2	250 g tin

VASCO 15 — 658

HALOGEN-FREE VASELINE

Chlorine-free, sulphur-free, fluorine-free Vaseline codex grease, specifically designed to lubricate small, delicate mechanisms and joints. Delicate greasing of plastics, ways, cables, grooves, runners, locks.

- white
- T°: **-20 to +50°C**
- NLGI Grade: **4/5**
- Water resistance: **good**
- Cl - F - S - Br : **< 200 ppm**
- PMUC: **19-084**

6658T3	100 g tube
6658B7	1 kg tin

VASCO — 657

VASELINE CODEX GREASE

Specifically designed for the lubrication of delicate mechanisms: Textile, food, pharmaceutical, watch making industry etc.

- white
- T°: **-20 to +50°C**
- NLGI Grade: **4/5**
- Water resistance: **good**

3657C3	310 ml cartridge
3657B7	1 kg tin
3657S1	5 kg tub

CT 691 — 691

LUBRICATION OF TELESCOPIC CRANE BOOMS

Water repellent, insulating, non-stick lubricating paste formulated with ultra-pure and PTFE-enhanced synthetic oils, for the mounting and lubrication of sliding and telescopic assemblies. Non-stick, longterm lubrication even in extreme weather conditions. Excellent resistance to inclement weather, extreme cold and very hot weather.

- white
- T°: **-50 to + 200°C**
- NLGI Grade: **1**
- 4-ball EP test: **< 0.45 mm**
- 4-ball EP: **> 340 kg**

3691C4	400 g standard cartridge
3691C4LS	400 g Lube Shuttle cartridge
369102	25 kg drum

SPECIAL GREASES

WSA 605

MARINE GREASE

Adheres, resists to water and steam. Multipurpose. Suitable for the marine environment and hydraulic industries. Bearings, axles, runners etc. Port areas, water treatment plants.

■ green
T°: -30 to +130°C
4-ball EP: 315 kg
DN Factor: 500 000

4605A4	650 ml aerosol	3605B7	1 kg tin
3605T4	200 g tube	3605S1	5 kg tub
3605C4	400 g cartridge	360502	25 kg drum
3605CL	400 g Lube shuttle	360504	50 kg drum

WSAi 605i

COLOURLESS MARINE GREASE

Adheres, resists to water and steam. Multipurpose. Suitable for the marine environment and hydraulic industries. Bearings, axles, runners etc. Port areas, water treatment plants.

colourless
T°: -30 to +130°C
4-ball EP: 315 kg
DN Factor: 500 000

4605iA4	650 ml aerosol

CTDMEP 2 606

HIGH-TEMPERATURE GREASE

Synthetic top range grease for heavy loads and high temperatures. Paper mills, public works, textiles, cardboard plants, steelworks. Excellent resistance in humid environment. Excellent stability for longlasting use.

■ blue
T°: -30 to +230°C
4-ball EP: 315 kg
DN Factor: 500 000

3606C4	400 g cartridge		Exists in grade 3 CTDMEP3
3606B7	1 kg tin		
3606S1	5 kg tub		
360602	25 kg drum		
360604	50 kg drum	36063S1	5 kg tub
3606U1	180 kg drum	3606304	50 kg drum

CT 683 683

SILICONE-FREE JOINT GREASE

Specifically formulated without silicone for assembling joints in the automotive industry. Greasing and sealing of all mechanisms. Chemically inert. Does not affect seals. For greasing all elastomers. Protects electrical devices against moisture.

□ fluorescent white
T°: -50 to +230°C
Drop point: none
NLGI Grade: 3,5
Water resistance: very good

3683B7	1 kg tin

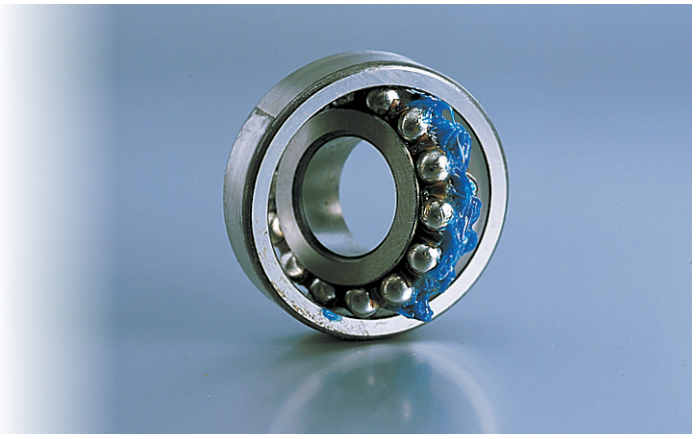
CT 830 616

HIGH-PERFORMANCE GREASE

Synthetic fluorinated grease, resistant to hydrocarbons and chlorates. Remains very stable over time. Recommended for difficult greasing jobs: refineries, chemical plants etc. Suitable for the lubrication of conveyors in epoxy painting booths.

□ white
T°: -40 to +280°C
4-ball EP: 800 kg

3616T3	100 g tube
3616C5	800 g cartridge
3616B7	1 kg tin
3616S1	5 kg tub



CT 8 EP 617

EXTREME PRESSURE MOS2 GREASE

MoS2 lubricant specifically formulated for use in very hot and exacting environments. Public works, transport, car equipments, mines, boiler rooms. Greatly reduces noise and mechanism wear.

■ grey / black
T°: -20 to +230°C
4-ball EP: 315 kg

3617B7	1 kg tin
361704	50 kg drum

CT 1240 619

HIGH PERFORMANCE GREASE +320°C

Perfluorinated, non-stick infusible grease, particularly suitable for aggressive and corrosive environments. Rollers for epoxy painting lines, valves for oxidising materials and petrol etc. Excellent water resistance.

□ white
T°: -40 to +320°C
4-ball EP: 800 kg

3619T3	100 g tube
3619C5	800 g cartridge
3619B7	1 kg tin
3619S1	5 kg tub

SPECIAL GREASES

WSA PB 659

GEARS SUBJECT TO EXTREME CONDITIONS

Extreme pressure tacky grease with excellent adhesion and enhanced water resistance. For open gears, cogwheels, cams operating in humid environments: cement works, harbour cranes, public works, quarries etc.

3659C4	400 g cartridge*
3659B7	1 kg tin
3659S1	5 kg tub
3659O4	50 kg drum

*Silicon type

■ brown
T°: **-30 to +120°C**
4-ball EP: **>500 kg**
NLGI Grade: **1**
Mineral filler: **zinc**

M 4 660

MOS2 INFUSIBLE GREASE

In-fusible grease with MoS2. Extreme pressure, does not run. Very stable during lifetime. Very stable at temperature. For bearings, axles, hinges, pumps, cable tensioners, etc.

3660C4	400 g cartridge
3660B7	1 kg tin
3660O4	50 kg drum
3660U2	180 kg drum

■ Dark grey
T°: **-35 to +225°C**
NLGI Grade: **2**
Drop point: **none**

NANOLUBRICANT® 2010

TOP-OF-THE-RANGE SEMI-SYNTHETIC

Grease rich in additives using new innovative technologies, with tremendous potential for advanced lubrication. Multi-purpose, high-performance grease.

42010A4	650 ml aerosol
32010C4S	400 g cartridge
32010C4	400 g Lube Shuttle cartridge
32010B7	1 kg tin
3201002	25 kg drum
3201004	50 kg drum

■ black
T°: **-30 to +230°C**
Speed: **500 to 8,000 rpm**
4-ball EP: **800 kg**

NANOLUBRICANT® 2035

HIGH-TECH WHITE GREASE

Grease specifically developed for applications in the food industry or where clean grease is required. Resulting from ORAPI's NANOLUBRICANT® technology, this grease has outstanding anti-wear, extreme pressure and long-life properties, 2 to 4 times greater than other greases on the market.

32035C4S	400 g standard cartridge

□ white
T°: **-30 to +150°C**
NLGI Grade: **2**
4-ball EP: **500 kg**

NANOLUBRICANT® 2045

WATERPROOF MARINE GREASE

High-performance, long-lasting tacky and adhering grease resulting from new technologies. Calcium soap grease specifically formulated for very wet or underwater marine environments, notably severe weather and humidity conditions. For petroleum industries, port areas, wind farms, agriculture, public works, paper mills.

32045C4S	400 g cartridge standard
32045B7	1 kg box
3204504	50 kg drum

■ black
T°: **-30 to +130°C**
NLGI Grade: **2**
4-ball EP : **800 kg**

CT 665 665

SEVERE WEAR AND SHOCK CONDITIONS

Grease formulated using calcium sulfonate soap. Especially designed for very severe conditions: extreme pressure, wear, shocks, water resistance. Main bearings, oven bearings, foundry rollers, axles, frames etc. for agriculture, civil engineering, marine, steelworks, public works.

3665C4	400 g cartridge
3665B7	1 kg tin

■ caramel
T°: **-25 to +190°C**
4-ball EP: **480 kg**
Water resistance: **very good**

M 6 675

HIGH SPEED AND SEVERE COLD

Synthetic grease with lithium soap. Extreme pressure, resistant to low temperatures, ideal grease for lubrication in cold regions such as the poles, at very high altitude and in the refrigerating industry. Resists heavy loads and very high speed. Appropriate for spindle bearings and every bearing with big diameter at high speed.

3675C4	400 g cartridge
3675B7	1 kg tin

□ > ■ beige to brown
T°: **-70 to +120°C**
4-ball EP: **350 kg**
DN Factor: **1 000 000**

M 7 674

MOS2 AERONAUTICAL GREASE

Extreme pressure synthetic grease enhanced with molybdenum disulphide. Excellent performance at low temperatures, withstands very high rotation speeds and ideal for large-diameter bearings. Resistant to heavy loads and shocks. Ideal grease for lubrication in regions such as the poles, at very high altitude and in the refrigerating industry or aeronautical applications.

3674B7	1 kg tin

■ black
T°: **-70 to +120°C**
4-ball EP: **350 kg**
DN Factor: **1 000 000**

SPECIAL GREASES

CT 662 — 662

HIGH-PERFORMANCE POLYUREA

Polyurea based soap. Excellent water and wear resistance. Compatible with almost all types of grease. Exceptional lifetime at high temperature. For bearings exposed to water, heavy loads and high speeds and temperatures: electric motors, fans, conveyors etc.

■ **light brown**
T°: **-20 to +150°**C
4-ball EP: **> 320 kg**

3662C4	400 g cartridge
3662B7	1 kg tin
36620Z	25 kg drum

M1RB LUBRIMOLY M2 — 639

LONG-LASTING GREASE

High-tech MoS2 grease for long-lasting lubrication in the aeronautical and aerospace industries (ARIANE ESPACE approved) and the armed forces. Remains efficient a long time, even on pieces submitted to movements with a low frequency. Very stable to temperature changes.

■ **Dark grey**
T°: **-30 to +160°C**
4-ball EP: **315 kg**

3639T4	200 g tube
3639B7	1 kg tin

FOOD GRADE GREASES

CT 615 — 615

WHITE GREASE

Food-related industries. Water and detergent resistant. Direct and centralised greasing. Bearings, cams, packaging machines, conveyors etc.

□ **white**
T°: **-20 to + 160°C**
Grade: **1,5**

3615T3	100 g tube
3615C4	400 g cartridge
3615CL	400 g Lube Shuttle cartridge
3615B7	1 kg tin
3615S1	5 kg tub
36150Z	20 kg drum
36150Y	50 kg drum

CT FLON AL — 618

PTFE GREASE

Greasing under heavy loads with the lubricating effect of PTFE, noise reduction. Chemically inert. Excellent water resistance, good adhesive properties. Bearings, conveyors, etc. ideal for use on plastics.

□ **white**
T°: **-40 to +170°C**
DN Factor: **350 000**

4618A4	600 ml aerosol
3618C4	400 g cartridge
3618B7	1 kg tin
3618S1	5 kg tub

CT 609 — 609

TRANSLUCENT GREASE

Does not stain, excellent water resistance. For chains, hinges, runners, cutting knives on packaging lines, sliding surfaces.

transparent
T°: **-30 to +150°C**
Drop point : **none**

4609A8	270 ml TDS aerosol
4609A4	650 ml aerosol
3609T4	200 g tube
3609C4	400 g cartridge
3609CL	400 g Lube Shuttle cartridge
3609B7	1 kg tin
36090Y	50 kg drum

CT 6092 — 6092

TRANSPARENT DIRECT CONTACT GREASE

Very high-quality translucent grease for the food and food processing industry for applications where direct contact with food is required or is unavoidable.

3H certified: This grease can be used on grills, bread pans, knives, boning benches, cutting boards and other hard surfaces...

Colourless
T°: **-15 to +180°C**
Grade: **2**
Classe: **3H**
Drop point : **none**

36092C4	400 g cartridge
36092B7	1 kg tin

CT 622 — 622

VERY SOFT PTFE GREASE

Lubrication under heavy loads with PTFE's lubricating effect, noise reduction. Chemical inertness. Excellent water resistance, very adhesive. Bearings, conveyors… Ideal on plastics.

□ **white**
T°: **-15 to +130°C**
Grade: **00**
Classe: **H1**

3622B7	1 kg tin
36220Y	50 kg drum

CT 6221 — 6221

SOFT PTFE GREASE

Lubrication under heavy loads with PTFE's lubricating effect, noise reduction. Chemical inertness. Excellent water resistance, very adhesive. Bearings, conveyors… Ideal on plastics.

□ **white**
T°: **-15 to +130°C**
Grade: **1**
Classe: **H1**

36221C4	400 g cartridge
36221B7	1 kg tin
36221Y4	50 kg drum

SILICONE GREASES

SI 4 — 621

SILICONE GREASE

For the assembly and lubrication of all mechanisms. Water repellent. Excellent thermal conductivity, chemically inert. No effect on gaskets. For greasing all elastomers. Protects electrical devices.

3621T3	100 g tube
3621B7	1 kg tin
362102	25 kg drum

colourless
T°: -40 to +200°C
Drop point: **none**
Water resistance: **very good**
NLGI Grade: **2**

SI VIDE — 633

HIGH-VACUUM GREASE

Formulated for the assembly and lubrication of all mechanisms under vacuum. Water repellent grease, very sticky, based on special silicone oils. Chemically inert. No damage on gaskets or elastomers.

3633T3	100 g tube

colourless
T°: **-40 to +200°C**
Drop point: **none**
Water resistance: **very good**
Vacuum capability: **10^{-4}**

SI 20 — 646

SILICONE GREASE

Enhanced anti-wear and anti-corrosion properties. For bearings, hinges and mechanisms operating in very humid atmospheres at high speeds and under medium loads. Absorbs heat energy.

3646B7	1 kg tin
364604	50 kg drum

beige
T°: **-30 to +160°C**

SI 450 — 648

JOINT LUBRICATION

Silicone grease for assembling joints and lubricating all mechanisms in contact with water. Water repellent. Excellent thermal conductivity, chemically inert. Keeps rubber gaskets flexible. Protection of all electrical devices. Suitable for greasing all elastomers.

6648T4	200 g tube
6648B7	1 kg tin

colourless
T°: **-40 to +200°C**
Water resistance: **very good**
Cl - F - S - Br: **< 200 ppm**
PMUC: **19-172**

SI 528 — 649

LUBRICATION/SEALING OF VALVES AND TAP FITTINGS

Formulated for the assembly and lubrication of all mechanisms. Water repellent. Excellent thermal conductivity, chemically inert. Lubrication of industrial valves and fittings. Metal and plastic valves and cylinder rods. Compatible with all seals and elastomers.

3649B7	1 kg tin
364902	25 kg drum

colourless
T°: **-40 to +200°C**
Water resistance: **very good**
NLGI Grade: **3**

SI ROBINET — 651

VALVES AND TAP FITTINGS, FOOD INDUSTRIES

Lubrication of household and industrial valves and tap fittings. For metal, glass and plastic valves. Compatible with all seals and elastomers. The grease remains very stable when exposed to heat, hot or cold water or solvents. Chemically inert.

3651T3	100 g tube
3651B7	1 kg tin

colourless
T°: **-40 to +200°C**
Drop point: **none**
Water resistance: **very good**
NLGI Grade: **2**

CT 630 — 672

FLUOROSILICONE GREASE

High-tech synthetic grease specifically formulated to withstand heavy chemical stress: acids, strong oxidising agents, solvents, hydrocarbons. Bearings, fans, ovens, conveyors, electrical connectors. High stability within the time and in every kind of atmosphere.

3672C4	400 g cartridge

white
T°: **-40 to +280°C**

CTSI — 809

AEROSOL GREASE

High viscosity lubricant for maximum resistance to bad weather. For the semi-greasy lubrication of chains, conveyors, plastic materials, rubber, locks, hinges, open mechanisms, pharmaceutical industry equipment, ski lift poles, etc. Excellent mould releaser.

4809A4	650 ml aerosol

colourless
T°: **-60 to +200°C**

SILICONE GREASES

SITEF 2 — 620

PTFE SILICONE GREASE

High-performance grease recommended for lubrication under vacuum in the presence of acidic or alkaline products. Excellent water resistance. Plastic-to-plastic lubrication. Does not stain. For (low speed) ball bearings operating at very high or very low temperatures, tap fittings, valves etc. in the refrigeration, chemical, petroleum and aeronautical industries, industrial bakeries, etc.

- white
- T°: **-60 to +280°C**
- NLGI Grade: **2**

3620T4	200 g tube
3620C4	400 g cartridge
3620B7	1 kg tin

SITEF 1 — 626

PTFE SILICONE GREASE: SOFT

High-performance grease recommended for lubrication under vacuum in the presence of acidic or alkaline products. where a soft grease is required. Excellent water resistance. Plasticto-plastic lubrication. Particularly suitable for low temperatures. Does not stain. For cold industry, chemical industry, petrol industry, industrial bakeries, aeronautical environment…

- white
- T°: **-60 to +280°C**
- NLGI Grade: **1**

3626B7	1 kg tin

SITEF 3 — 654

PTFE-BASED SILICONE GREASE HARD

Lubrication and sealing of valves and metallic, glass or plastic taps. Compatible with all gaskets. Lubrication under vacuum at low and high temperatures. Excellent resistance to water and chemicals. The thick texture provides a watertight seal as well as lubrication.

- white
- T°: **-60 to +280°C**
- Viscosity: **≈ 22000 cP to 25°C**
- NLGI Grade: **3**

3654C4	400 g cartridge
3654B7	1 kg tin

SIL 50/50 — 823

SURFACE TREATMENT

MoS2 silicone paste. Exceptional resistance to corrosive chemicals, water, steam and oxidation. Lubrication of mechanisms exposed to very low and very high temperatures. Widely used in aeronautics.

- Bluish grey
- T°: **-50 to +300°C**
- NLGI Grade: **1**
- 4-ball EP: **500 kg**

3823T3	100 g tube

SI 33 — 652

COLD SILICONE GREASE

Very powerful grease, at low temperature. It avoids joints' bonding and deformation. Frequent washing and oxidation resistant. Excellent for bearings, plastic materials, elastomers, joints, cams and runners. Excellent resistance to solvents and chemicals.

- white
- T°: **-60 to +175°C**
- Water resistance : **very good**

3652T3	100 g tube
3652B7	1 kg tin

SILICONE GREASES

SILICONE SPRAY 803

LUBRICANT AND MOULD RELEASER

Aerosol version of silicone oil for easy and precise release. Excellent for releasing from rubber and plastic moulds. Very strong water repellent power. Withstands frequent cleaning. Lubrication of guillotine table and blade. Non-adhesive, antistatic lubrication of conveyor belts and slideways in the packaging and textiles industries.

PMUC

colourless
T°: **-50 to +200°C**
PMUC: **19-208**

4803A4	650 ml aerosol
6803A4 PMUC	650 ml aerosol

SILAL 812

FOOD GRADE SILICONE LUBRICANT

Mould releaser for materials used in the food and pharmaceutical industries. Water repellent lubricant for chains, conveyors, open mechanisms where incidental contact with food may occur. Pharmaceutical industry, nappy folding and packaging etc. (ACS compliant).

NSF

colourless
odourless
T°: **-40 to +180°C**

4812A4	650 ml aerosol

SILICONE V 7500 746

VISCOUS LUBRICANT AND MOULD RELEASER

Powerful mould release agent, leaving no residue when hot. Lubricate plastics and rubber gaskets without damage. To be used with a large temperature range without risk to congeal, chemically inert, no risk of corrosion, resists during months even with frequent washes. For lubricating mechanisms exposed to very humid environments.

colourless
T°: **-45 to +200°C**
Viscosity at 25°C: **7 500 cSt**

2746J1	5 kg jerrycan
2746U2	200 kg drum

SILICONE V 300 825

FLUID SILICONE OIL

Highly hydrophobic silicone lubricant, to be used neat. Can be used within a broad range of temperatures with no risk of congealing; chemically inert; resists frequent washing for several months. Lubrication of all mechanisms. Pharmaceutical grade, cosmetics.

NSF

colourless
T°: **-52 to +200°C**
Viscosity at 40°C: **300 cSt**
Viscosity at 25°C: **350 cSt**

2825i2	1 kg container
2825J1	5 kg jerrycan

ESIL 10/10 822

RUBBER SLIDING AGENT

Silicone emulsion for perfect plastic/metal sliding. Mould release for concrete, rubber and other plastic materials. Excellent lubricant for protecting and assembling door and window profiles, footwear industry equipment, etc. Can be used neat or diluted. Water-based.

white
VOC content: **0%**
non-flammable

3822J1	5 l jerrycan
382201	20 l drum

LUBRIFIANT 836 836

SEMI-GREASY SILICONE

Fluid lubricant based on pre-diluted silicone for a less greasy appearance. Water repellent mould releaser. Resist to oxidation and chemicals. Advised for metals. Does not damage plastics, nor rubber. Forms an anti adhering and lubricant film.

colourless
T°: **-45 to +200°C**
Flash point: **30°C**

2836J1	5 l jerrycan

SILICONE OILS

ORALUB 32 — 894

TURBINES, SPINDLES

Provides corrosion protection of lubricated surfaces. Very low friction coefficient, anti-wear properties, adapted for central greasing. Fast spindle movements, hydraulic motors and pumps, precision mechanisms etc.

- yellow
- Viscosity at 40°C: **32 cSt**
- Flow point: **-21°C**
- **ISO 32**

2894J1	5 l jerrycan
289401	20 l drum
2894U2	208 l drum

ORALUB 46 — 893

HYDRAULICS, RUNNERS

Multipurpose lubricant with the last antioxidants additives, anti-wear and extreme pressure characteristics. Specially designed for power transmissions. Suitable for centralised greasing and oil mist lubrication systems. For application onto hydraulic motors and pumps, precision machine tools.

- yellow
- Viscosity at 40°C: **46 cSt**
- Flow point: **-18°C**
- **ISO 46**

2893J1	5 l jerrycan
2893U2	208 l drum

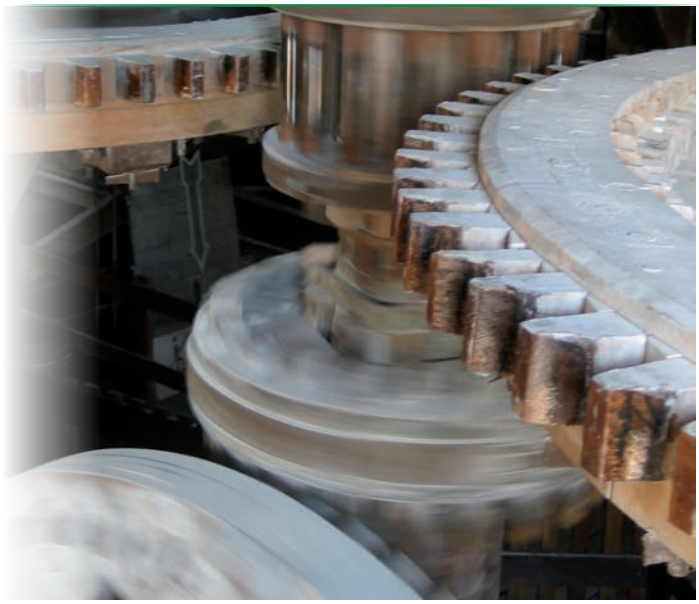
ORALUB 68 — 895

RUNNERS, GEARS

Oil with high grip and extreme pressure additives and which guarantees anti-corrosion protection of lubricated surfaces. Avoids frictions and vibrations. For all runners, regardless of speed and load conditions, machine tool guides and sliders, cables, gears, gear reducers, hydraulic equipment, etc.

- yellow
- Viscosity 40°C: **68 cSt**
- Flow point: **-15°C**
- **ISO 68**

2895J1	5 l jerrycan
289505	60 l drum
2895U2	208 l drum
2895N1	1,000 l container



CB 831 — 831

ENCLOSED GEARS

High-tech, very adhesive fluid lubricant capable of withstanding high temperatures under heavy loads. Contains extreme pressure additives, reinforced anti-corrosion property. No gap formation when using splash lubrication. Gears, cranes, public works equipment, port areas, ball mills for crushing ore, cable cars, gantries, etc.

- brown
- Viscosity at 40°C: **220 cSt**
- Flash point: **260°C**
- **ISO 220**

2831i2	1 l container
2831J1	5 l jerrycan
2831U2	208 l drum

LUB CABLE — 831E

CABLE OIL

Very fluid, adhesive and highly penetrating oil for internal and external cable lubrication. Contains extreme pressure and water repellent agents. Increases the life span of crane, cable car, hoist, bridge crane cables and protects them against corrosion. Applied with a brush, by spraying or splash lubrication.

- brown
- **very fluid**
- Viscosity at 25°C: **100 cP**
- 4-ball wear 1h at 40 kg: **< 0,4 mm**

2831E 01	20 l drum

MECHANICAL OILS

CB5 — 802

LUBRICANT FOR CHAINS

MoS2-based penetrating lubricant. Enhanced antioxidant, extreme pressure and anti-wear properties. Lubrication of chains, conveyors, mechanisms, etc. operating at high temperatures, subject to heavy loads and in dusty environments. Recommended by SEDIS.

■ black
T°: **-30 to +230°C**
Viscosity at 40°C : **40 cSt**
Viscosity at 25°C : **50 cSt**

4802A4	650 ml aerosol
2802J1	5 l jerrycan
280205	60 l drum

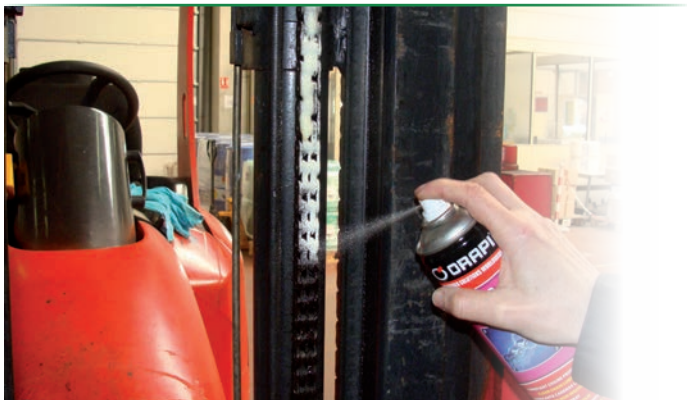
CB6 — 806

CLEAN LUBRICANT FOR CHAINS

Semi-synthetic water-resistant liquid. Anti-oxidising and anti-wear properties, for high temperatures. Does not stain or attract dust. Conveyors, forklift trucks, agricultural tooling, hobbies… Recommended by SEDIS.

■ brown
T°: **-30 to 280°C**
Viscosity at 10°C: **1700-1800 cSt**
Viscosity at 40°C : **210 cSt**

4806A4	650 ml aerosol
3806i2	1 l container
3806J1	5 l jerrycan
380601	20 l drum
3806U2	200 l drum



G 105 X — 663

GRAPHITE-BASED CHAIN LUBRICANT

Graphite-enhanced mineral oil for mechanisms operating at high temperatures under high stress. Not water soluble, protects against corrosion. Recommended for the lubrication of chains and conveyors in the textiles industry, on oil rigs, in port areas, glass works and the automotive industry. Advised in special applications: deformation, cutting, drilling.

■ black
T°: **up to +240°C**
Silicone-free
Viscosity at 25°C : **= 1960 cP**

366301	20 kg drum

NANOLUBRICANT® — 2020

HIGH TECHNOLOGY

Highly adhesive, water repellent fluid lubricant containing revolutionary additives. For cables, chains and gears. Resists to high temperatures and heavy loads. Reinforced anti-corrosion and anti wear properties. Increases lubrication longevity by 5, reduces wear by 4 and reduces friction by 2.

■ black
T°: **-30 to +300°C**
Viscosite to 20°C : **220 cSt**
Test Wear 4 billes: **0**

42020A4	650 ml aerosol
22020i4	1 l spray bottle
22020J1	5 l jerrycan

MOLIQ — 837

SELF-CLEANING LUBRICANT

Extreme pressure fluid based on MoS2. Developed for the external lubrication of points bearings, railway tracks and any mechanism operating intermittently and being exposed to dirt. Cleans and lubricates in one go. Underground railways, tramways, railways, merry-go-rounds.

■ black
T°: **-40 to +180°C**
4-ball EP: **800 kg**

2837i2	1 l container
2837J1	5 l jerrycan
283701	20 l drum

ORAFLON — 705

PTFE LUBRICANT

High-technology, semi-greasy PTFE lubricant for long-lasting use. Reinforced anti wear and anti oxidation properties, excellent adherence. Very low friction coefficient. Excellent resistance to water and cold. For chains, cables, slides, delicate mechanisms…

■ light amber
T°: **-20 to + 230°C**

4705A2	405 ml aerosol
2705i2	1 l container
2705J1	1 l bottle

G 840 — 840

GLYCERIN OIL

Refined lubricant for delicate greasing. Very fluid, to be used for lubrication of micro-mechanisms, control devices and pressure gauge filling. Does not stain.

colourless
T°: **-20 to +70°C**
Viscosity at 25°C: **800 cP**
Cl - F - S - Br: **< 200 ppm**
PMUC: **19-108**

6840i2	1 l container
684001	20 kg drum

MOULD RELEASE OILS

ORATEN 811

SILICONE-FREE MOULD RELEASER

Multi-purpose, silicone-free mould-releasing and lubrication agent for plastics and rubber. Prepares surfaces for welding, duplicate moulding, electroplating and printing. Used in the wood industry to facilitate the sliding of balls bearings and trays.

colourless
T°: **-30 to +200°C**

4811A4	650 ml aerosol
2811J1	5 l jerrycan

PEI 35 838

MOULD RELEASER FOR DIFFICULT CONDITIONS

Product for mould releasing on plastics and rubber when complex shapes are difficult to release. Excellent non-stick properties for special polymers. Silicone-free product that can be painted or printed on after the product is released from the mould. Does not stain. Widely used for moulding plastic, provides an end product that is clean and perfectly sized.

colourless
T°: **-20 to +150°C**

4838A4	650 ml aerosol

FOOD GRADE OILS

FINE 121 810

LIGHT OIL

Highly fluid, clean lubricant for greasing delicate mechanisms. For lubricating micro-mechanisms, control apparatus, pneumatic circuits and chains in the food industry. Recommended by SEDIS.
INS 3H for direct contact with foodstuffs.

colourless
T°: **-30 to +150°C**
PMUC: **19-0532**

2810R1	125 ml oil can
4810A4	650 ml aerosol
2810I2	1 l container
2810J1	5 l jerrycan
2810U2	200 l drum
6810R1 PMUC	125 ml oil can
6810A4 PMUC	650 ml aerosol
6810I2 PMUC	1 l container

ORAFLON AL 707

FOOD GRADE PTFE LUBRICANT

High-tech PTFE-based lubricant. Gives all treated mechanisms long term lubrication. Does not stain. Improves friction coefficient and eliminates noises. For the food industry (abattoirs, bottle conveyors etc.)

white
T°: **-20 to +230°C**
Viscosity at 25 °C: **44 cSt**

4707A8	270 ml TDS aerosol
4707A4	650 ml aerosol
2707I2	1 l container
2707J1	5 l jerrycan

HUILE L 305 565

MULTI-PURPOSE SYNTHETIC OIL

Multipurpose lubricant with a much higher anti-wear power than traditional lubricants. Cleans, penetrates and lubricates very quickly. Protects against corrosion. Oil designed for abattoirs, canning, biscuit and cheese plants etc. for all types of lubrication: chains, gears, pinions, slideways. The viscosity is suitable for a broad range of applications and mechanisms.

Exists in high Viscosity: 5652

colourless
T°: **-35 to +135°C**
Viscosity at 40 °C: **105 cSt**

4565A4	650 ml aerosol
2565J1	5 l jerrycan

DESUCR'OIL 819

SUGAR DISSOLVING OIL

Highly penetrating, sugar dissolving and lubricating white fluid. Dissolves sugar residue, infiltrates, lubricates and protects. De-seizes mechanisms blocked by large sugar deposits.
White, tasteless and odourless lubricant.
Food industries (chains, pinions etc.), sweet food packaging, production and processing equipment.
Water-based.

white
Transparent liquid
T°: **+5 to +70°C**
Flash point: **none**
VOC content: **0 %**

2819J1	5 kg jerrycan
281901	20 kg container

OIL ADDITIVE

NANOLUBRICANT® 2021

ADDITIVE FOR LUBRICANTS

High-tech additive based on ORAPI's innovative NANOLUBRICANTS®. Enhances the extreme pressure and anti-wear properties of the lubricants which contain the additive. Enhances the vitality and efficiency of waste oil. Boosts the performance of low to medium-range oils. 100 ml = dose for 5 l.

■ black
T°: **-30 to +300°C**
Usage dose: **de 1 to 3%**
Viscosity at 21°C: **1350 cP**

22021R4	100 ml bottle
22021i1	500 ml can

DOPE SBW 860

ADDITIVE FOR ALL TYPES OF OIL

Improves oil performance. Soluble with every mixing ration, even in additivated oils. Enhances extreme pressure and anti-wear properties. Reduces tooling warming up and avoid its premature wear. Recommended for gearboxes, variable speed controllers, gear reducers, bearings etc. in aeronautics, agriculture, industry etc. Ideal for improving the performance of soluble cutting oils.

colourless
Usage dose: **0,5 to 5%**
Viscosity at 40°C: **140 cSt**

286001	20 kg Jerrycan

FLUORINATED OILS

FLUIDE 830 830

SYNTHETIC LUBRICANT

High-tech fluid lubricant resistant to aggressive chemicals: strong oxidising agents, steam, oxygen, helium, hydrocarbons, and high temperatures. Compatible with plastic materials. Silicone-free. Can be used as a mould-release agent. To be applied in a very thin coat.

colourless
viscous liquid
Odourless
T°: **-40 to + 280°C**
Density: **1,9**
Viscosity at 40°C: **89 cSt**

4830A2	405 ml aerosol
3830i2	1 kg container
3830J1	5 kg jerrycan

FLUORE 60 669

FLUID SYNTHETIC LUBRICANT

High-tech fluid synthetic lubricant resistant to aggressive chemicals: strong oxidising agents, steam, oxygen, helium, hydrocarbons, and high temperatures. Compatible with plastic materials. Can be used as a mould-release agent.

colourless
liquide
Odourless
T°: **-49 to +154°C**
Density: **1,88**
Viscosity at 40°C: **30 cSt**

3669i2	1 kg container

FLUORE 6 685

VERY FLUID SYNTHETIC LUBRICANT

High-tech, very fluid lubricant resistant to aggressive chemicals: strong oxidising agents, steam, oxygen, helium, hydrocarbons, and high temperatures. Compatible with plastic materials. Can be used as a mould-release agent.

colourless
fluid liquid
Odourless
T°: **-70 to +66°C**
Density: **1,83**
Viscosity at 40°C: **3,5 cSt**

368501	20 kg drum
3685l2	1 kg container

METAL WORKING - VANISHING FLUIDS

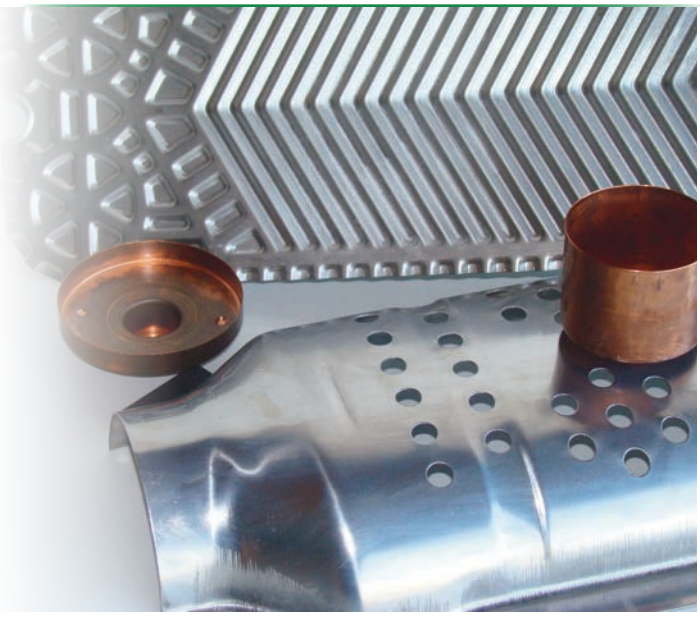
FTS 60 — 878

FOR STAMPING AND CUTTING THICK METAL SHEETS

Fluid for forming operations with complex shapes. Leaves a light very resistant film that protects pieces against corrosion. Perfectly appropriate for various operations on metals and alloys, even coated and very thick.

yellow
Viscosity at 25°C:
2,8 cSt

2878i2	1 l container
2878J1	5 l jerrycan
287801	20 l drum
2878U2	200 l drum



FTS 879 — 879

PLANT-BASED VANISHING OIL

Vanishing (evaporating) lubricant for metal working: metal sheet working, forming, bending, stamping, shaping, rolling, folding and cutting. Formulated from edible plant-based oils. Manufacturing: food packaging, containers, beverage cans, tins, buckets, spray cans, oil cans, air conditioning fins etc.

colourless to light yellow
Odourless
Viscosity at 40° C:
2 mPa.s
Metal sheet:
up to 40/10mm

287901	20 l drum
2879U2	200 l drum

FTS 18 — 869

MEDIUM MATERIAL CUTTING AND STAMPING

Fluid for working operations involving complex shapes. Works very well on thin to medium thickness metal sheets thanks to its extreme pressure agents. Leaves no residue.

colourless
Viscosity at 25°C:
1,3 cSt
Metal sheet:
up to 20/10mm

286901	20 l drum
2869U2	200 l drum

FTS 21 — 872

MEDIUM AND THIN MATERIAL CUTTING AND STAMPING

Chlorine-free, sulphur-free thermodegradable fluid for delicate working operations on thin materials designed for the food and pharmaceutical industry. Leaves a light residual film, nearly imperceptible Thermodegradable.

colourless
Viscosity at 25°C:
1,45 cSt

287201	20 l drum
2872U2	200 l drum

FTS 230 C — 856C

THICK METAL SHEETS, HIGH OUTPUTS

Fluid for working operations involving complex shapes and high consumption due to significant output. For thick metal sheets; contains extreme pressure agents. For the cutting, folding and shaping of steel straps.
Stamping, folding, working, cutting, punching of all metals and special alloys. Automatic stamping: covers, boxes, packaging of all shapes.

colourless
Viscosity at 25°C:
1,6 cSt

2856CN1	1,000 l container

METAL WORKING - NEAT OILS

FILDUC BIO 912

BIODEGRADABLE

Neat oil for all machining operations, formulated from additives and base ingredients carefully selected for their biodegradability and performance. Can be used for a variety of operations, tools and worked metals. Specifically formulated for use in forestry operations, near rivers, ponds, in agriculture, ski resorts, quarries, etc.

■ **brown**
Viscosity at 40°C: **41,3 cSt**

4912A4	650 ml TDS aerosol
2912J1	5 l jerrycan

FILDUC 1879 859

TAPPING, DRILLING, SAWING

Cutting oil with very good extreme pressure and anti-wear properties. Effective, multi-purpose product. Exceptional adhesion on screw taps and drills. Excellent for tapping difficult holes whether "blocked" or not in all types of steel, including stainless.

■ **brown**
Viscosity at 40°C: **510 cSt**

4859A4	650 ml TDS aerosol
2859R1	125 ml oil can
2859J1	5 l jerrycan
2859U2	200 l drum

OLDUC 1227 SF 855

MACHINING OF HARD STEELS AND STAINLESS STEELS

Extreme pressure and anti-wear cutting oil for turning, milling, boring, tapping, bar turning and all difficult machining operations on stainless, treated and alloy steels. Thanks to its fluidity, it can be sprayed onto automatic lathes.

■ **light brown**
Viscosity at 40°C: **25 cSt**

2855J1	5 l jerrycan

2000 NUCL NF 858

HALOGEN-FREE

Cutting oil with excellent extreme pressure and anti-wear properties, free from halogen compounds; quickly dissipates the heat energy generated by machining. Its formulation and viscosity make it suitable for all uses on all materials, more specifically titanium and stainless steel machining in the nuclear and aeronautical industries.

■ **yellow**
Viscosity at 40°C: **21 cSt**
Cl - F - S - Br : **< 200 ppm**
PMUC: **19-0527**

6858A4	650 ml TDS aerosol
6858i1	500 ml can
6858J1	5 l jerrycan
6858U2	200 l drum

FTS 10 NU 865

ODOURLESS AND COLOURLESS

Synthetic colourless and odourless fluid with high anti wear and extreme pressure power. For the tapping and drilling of all metals, prevents the premature wear of cutting tools. To be applied pure, with brush or by spraying.

colourless
odourless
Viscosity at 20°C: **180 cSt**
Cl - F - S - Br : **< 200 ppm**
PMUC: **19-071**

6865i1	500 ml spray bottle

TAPPING PASTES

TA 1800 886

TAPPING PASTE

Cutting paste with excellent extreme pressure and anti-wear properties, easy to apply onto the tools. Does not run. Increases tools life.
Its formulation and texture make it suitable for all uses on all materials: a genuinely multi-purpose and efficient product. Exceptional adhesion on taps and drills, even in vertical and upside-down applications.

■ **caramel**
NLGI Grade: **3**
VOC content: **0%**
4-ball EP: **580 kg**

3886B6	500 g tin
3886S1	5 kg tub

METAL WORKING - SOLUBLE OILS

ORACOUP 32 — 882

NON-FERROUS METALS

Chlorine-free emulsion with a high concentration of unctuous and anti-wear additives, for the machining of non-ferrous metals, copper alloys, titanium, aluminium, copper, mild & semi-hard steel and light alloys. Turning, milling, drilling, taping.

- light yellow
- Usage dose: **4 to 6%**
- pH diluted to 5%: **9 to 10**

288201	20 l drum
2882U2	208 l drum

ORACOUP 11 — 880

GRINDING

Synthetic lubricant solution specifically formulated for precision grinding, guaranteeing excellent internal and external protection of steel, cast iron, ferrous and non-ferrous metal parts, bearing tracks, bushed bearings, chocks etc. Easy to filter, does not foam, even under the most difficult grinding conditions.

- green
- Usage dose: **2 to 3%**
- pH diluted to 3%: **9 to 10**

2880J1	5 l jerrycan
288001	20 l drum
2880U2	200 l drum

ORACOUP 252 — 852

VERSATILE, LONG-TERM USE

Chlorine-free microemulsion for milling, turning and sawing ferrous metals and white alloys, suitable for significant chipping. Product with excellent mechanical and microbial stability, allows for less frequent emptying.

- yellow
- Usage dose: **2 to 6%**
- pH to 5%: **9 to 10**

2852J1	5 l jerrycan
285201	20 l drum
2852U2	200 l drum

ORACOUP 892 — 892

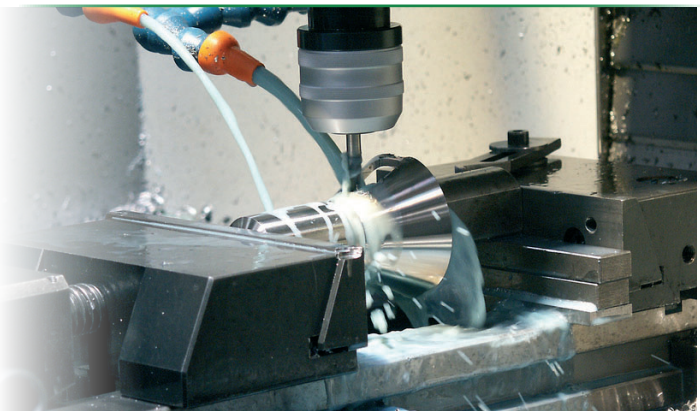
HALOGEN-FREE

Micro-emulsion for milling, turning and sawing of ferrous metals and white alloys, appropriate for high volume metal chip removal. Product with excellent mechanical and microbial stability, allows for less frequent emptying.

PMUC

- yellow
- Usage dose: **2 to 6%**
- pH to 5%: **9 to 10**
- Cl - F - S - Br : **< 200 ppm**
- PMUC: **19-070**

6892J1	5 l can
689205	60 l drum
6892U2	200 l drum



TREATMENTS

ORACOUP 91 — 854

FUNGICIDE MAINTENANCE TREATMENT

Bactericidal and fungicidal product with cleaning action for restoring baths damaged by bacterial pollution. Recovers baths which are starting to turn, i.e. characterised by sludge and unpleasant odours. The bath will regain its initial appearance and odour within 24 to 48 hours of the treatment. Curative and preventive treatment.

- colourless
- Usage amount: **1 to 5%**

2854i2	1 l container
2854J1	5 kg jerrycan
285404	50 kg drum

ANTIMOUSS — 587

BUBBLE ELIMINATOR

Additive formulated from stabilised, high-purity copolymers for eliminating foam in water-based solutions. The foam is eliminated within seconds in water-soluble cutting oils, lubricants, scale removers and detergents, in particular when they are vigorously shaken. To be used in small quantity.

- white
- pH: **7,5**
- **Silicone-free**

2587i2	1 l container

ASSEMBLE 1

BOND
SEAL
FIX
REPAIR

TOWARDS BETTER ASSEMBLY

In the imperfect world of mechanical assembly, ORAPI has been developing solutions adapted to problems in all their forms since 1968.

Here we will share some of our knowledge with you to help you make the best possible choices.

FOCUS ON
ANAEROBIC RESINS

Anaerobic resins are single-component, single-bond adhesives.

These polymerise at room temperature when not in contact with oxygen and when the adhesive is in contact with metal. Applications are therefore limited to metals but they are numerous.

The benefits of the resins we manufacture are their excellent resistance to chemicals, high temperatures and vibration.

THE RATE OF POLYMERISATION DEPENDS ON:

1. the gap between the parts
2. the application temperature
3. the materials

THE USE OF RESINS CAN BE DIVIDED INTO 4 CATEGORIES:

1. Screw and bolt locking
2. Fastening of cylindrical assemblies: rings and bearings
3. Thread sealing of fittings and plugs
4. Close mating surface sealing of crankcases, flanges etc.

ORAPI PROCESS

FOR AN ESTIMATE, ADVICE
OR SPECIFIC REQUEST

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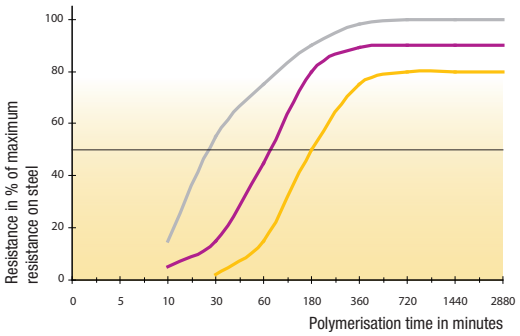
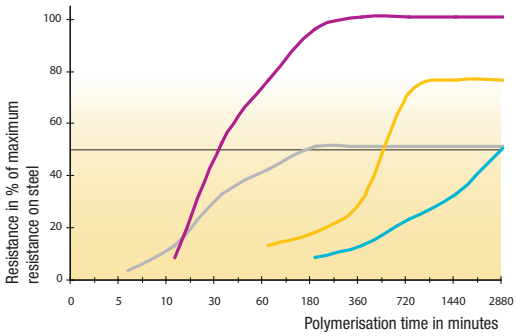
CONTACT@ORAPI.COM

RATE OF POLYMERISATION OF ANAEROBIC RESINS



According to the material



LEGEND

According to clearance

CLEARANCE 0,05 — CLEARANCE 0,15
CLEARANCE 0,25 — 50% de résistance

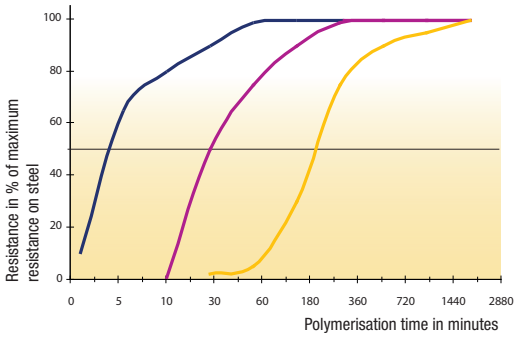
According to the material

Brass — Steel — 50% resistance
Galvanised steel — Stainless steel

According to room temperature

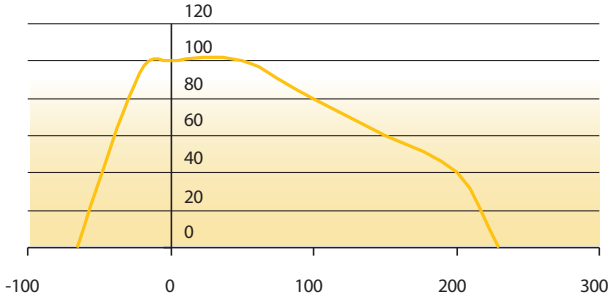
40°C — 22°C — 05°C — 50 % resistance

According to room temperature



MECHANICAL PERFORMANCE IN % OF RESISTANCE AT 25°C

According to exposure temperature



PREPARATION

NETTOYANT 3141 016

PRE-GLUING SOLVENT

Dry degreaser specifically formulated for cleaning prior to gluing. Removes impurities, improves adhesion and setting speed.
Quickly and totally removes all greasy particles stuck to material.

liquid
Odour: **strong and distinctive**

4016A4	650 ml aerosol

ACTIVATEUR 3140 015

SPECIAL ANAEROBIC RESINS

Speed up the polymerisation of anaerobic resins, reducing setting time.
Recommended:
- for use on galvanised or painted surfaces, stainless steel and aluminium,
- for large gaps
- when the temperature is below 10°C

copper red liquid
PMUC: **16-055**

1015M1	100 ml pump spray
6015M1 PMUC	100 ml pump spray

THREAD LOCKERS

FREINAGE ULTRA FAIBLE 299

VERY LOW RESISTANCE

For fragile assemblies to be dismantled easily using standard tools to avoid material deformation: bicycle wheel spokes, small screws in computers, watch making, eyewear etc.

yellow-orange very liquid
T°: **-60 to +150°C**
Setting time/steel: **3 to 25 mn**
Breaking strength on M10 steel bolts : **< 5 N.m**
CD 24 hrs/ M10 steel: **< 6 Nm**

1299S1	5 kg tub

FREINAGE FORT 300

STRONG RESISTANCE

Thread locking for metallic threads when dismantling is not required for maintenance or that are never to be dismantled.

green viscous liquid
T°: **-60 to 150°C**
Setting time/steel: **10 to 25 mn**
CD 24 hrs/ M10 steel: **> 25 N.m**
PMUC: **16-0048**

1300F1	5 ml bottle
1300F9	24 ml bottle
1300F3	50 ml bottle
1300F5	250 ml bottle
6300F3 PMUC	50 ml bottle

FREINAGE FAIBLE 306

MODERATE RESISTANCE

For all threaded pieces which are to be easily dismantled with standard tooling. For all assemblies with limited stress or fragile. Prevents loosening due to small vibration stresses such as those acting on electric motor screws.

purple viscous liquid
T°: **-60 to +150°C**
Setting time/steel: **10 to 25 mn**
CD 24 hrs/ M10 steel: **< 13 N.m**

1306F3	50 ml bottle
1306F5	250 ml bottle

FREINAGE MOYEN 303

MEDIUM RESISTANCE

For all threaded parts, to be dismantled if necessary with standard tooling. Excellent against vibration.

blue viscous liquid
T°: **-60 to +150°C**
Setting time/steel: **10 to 25 mn**
CD 24 hrs/ M10 steel: **10 - 20 N.m**

1303F1	5 ml bottle
1303F9	24 ml bottle
1303F3	50 ml bottle
1303F5	250 ml bottle
1303i2	1 l container

THREAD LOCKERS

FREINAGE FORT 15 301

STRONG RESISTANCE, LOW VISCOSITY

Permanent fixing of threads and dowels that are not to be dismantled. Fluidity perfect for thin threads and small fastenings.

■ **green**
liquid
T°: **-60 to 150°C**
Setting time/steel: **10 to 25 mn**
CD 24 hrs/ M10 steel: **> 25 N.m**

1301F3	50 ml bottle
1301F5	250 ml bottle

FREINAGE MOYEN ALIMENTAIRE 298

MEDIUM RESISTANCE - FOOD GRADE

For assemblies to be dismantled using standard tools in the food industry: conveyor belts for fruit and vegetables, pumps for beverages, blood, dairy products etc.

colourless
viscous liquid
T°: **-60 to 150°C (+230°C)**
Setting time/steel: **5 to 40 mn**
CD 24 hrs/ M10 steel: **> 20 N.m**

1298F3	50 ml bottle

FREINAGE FAIBLE 15 307

MODERATE RESISTANCE, LOW VISCOSITY

For all assemblies to be dismantled easily using standard tools and with small gaps, on thin threads and small screws.

■ **blue**
liquid
T°: **-60 to +150°C**
Setting time/steel: **10 to 25 mn**
CD 24 hrs/ M10 steel: **7 to 13 N.m**
PMUC: **16-074**

1307F3	50 ml bottle
1307F5	250 ml bottle
6307F3 PMUC	50 ml bottle

FREINAGE MOYEN 15 304

MEDIUM RESISTANCE, FLUID THREAD LOCK

For all assemblies to be dismantled easily using standard tools. Fluidity perfect for thin threads and small fastenings.

■ **red**
liquid
T°: **-60 to +150°C**
Setting time/steel: **10 to 25 mn**
CD 24 hrs/ M10 steel: **15 - 20 N.m**
PMUC: **16-049**

1304F3	50 ml bottle
1304F5	250 ml bottle
6304F3 PMUC	50 ml bottle

PRE-APPLIQUE 458

LOCKING/SEALING PRODUCT FOR PRE-ASSEMBLY APPLICATION

Pre-assembly thread treatment for locking and sealing threaded parts: the threads are treated in the workshop a few days before use. Dismantling with standard tooling.

■ **light blue**
liquid
T°: **-50 to +100°C**
Setting time/steel: **immediate**
CD 24 hrs/ M10 steel: **< 8 N.m**

1458B7	1 l container

RING FASTENING FOR BEARINGS

FIXPRESS 310

VERY STRONG AND QUICK FASTENING

Very resistant to radial, axial and dynamic stresses. Helps extend machining tolerances recommended for clearance values of 0.15 to 0.25mm. Can be used as very strong, quick-setting sealant. Recommended for assemblies that cannot be dismantled.

■ green
Handling time: **3 to 5 mn**
Shearing strength: **> 25 N/mm²**
T°: **-60 to +150°C**

1310F3	50 ml bottle
1310F5	250 ml bottle
1310S1	5 kg container

FIXMETAL 312

REPAIRS DEFORMED PARTS

Paste product advised for repairing, without machining, used cylinder-shaped pieces with high and even irregular gap (0.25 to 0.5mm). Resists to impacts and vibrations. For bearings' housing gone oval, repairing of shafts with wear or scratches. Always used with ACTIVATEUR 3140.

■ grey
Handling time: **20 to 45 mn**
Shearing strength: **> 20 N/mm²**
T°: **-60 to +150°C**

1312T2	50 g tube

BLOCK BAGUE 314

STRONG FASTENING - GAP < 0.05MM

Fluid resin recommended for small gaps. Fastening of rings, pulleys, bearings etc. with high shearing strength.

■ green
Handling time: **10 to 25 mn on steel**
T°: **-60 to +150°C**
Shearing strength: **> 20 N/mm²**
PMUC: **16-050**

1314F3	50 ml bottle
1314F5	250 ml bottle
6314F3 PMUC	50 ml bottle

BLOCK BAGUE 60 313

STRONG FASTENING - MEDIUM GAP

Strong resistance for radial, axial and dynamic stresses. Recommended for gaps from 0.15 to 0.25 mm, on assemblies that cannot be dismantled: fastening of drive shafts, pinions, pulleys etc.

■ green
Handling time: **10 to 25 mn on steel**
T°: **-60 to +150°C**
Shearing strength: **> 20 N/mm²**

1313F3	50 ml bottle
1313F5	250 ml bottle

BLOCK OIL TOLERANT 316

STRONG RESISTANCE, WITHSTANDS OIL

For application on pieces where degreasing cannot be perfect. Advised for gaps < 0.15mm. Fastening of rings, inserts, pulleys, bearings, cylinder liners etc. with high shearing strength.

■ green
Handling time: **10 to 30 mn on steel**
T°: **-60 to +150°C**
Shearing strength: **> 15 N/mm²**

1316F3	50 ml bottle
1316F5	250 ml bottle

RING FASTENING FOR BEARINGS

BLOCK ROULEMENT 60 317

MEDIUM RESISTANCE - MEDIUM GAP

Fastening of parts to be subsequently dismantled using standard tools in the event of wear. Fitting reinforcement for gaps between 0.15 and 0.25mm. Increases assemblies' reliability. Fastening of bearings onto shafts or housings, liners, inserts, rings, pulleys etc.

■ red
Handling time: **10 to 25 mn** on steel
T°: **-60 to +150°C**
Shearing strength: **>15 N/mm²**

1317F3	50 ml bottle
1317F5	250 ml bottle

BLOCK ROULEMENT 318

MEDIUM RESISTANCE - GAP < 0.05MM

Affixing parts which need to be dismantled with standard tools in case of wear. Fittings reinforcement. Increase assemblies reliability.

PMUC

■ red
Handling time: **10 to 25 mn** on steel
T°: **-60 to +150°C**
Shearing strength: **>15 N/mm² (24 hrs)**
PMUC: **16-051**

1318F3	50 ml bottle
6318F3 PMUC	50 ml bottle

FLAT SEALING

PORAJOINT 333

SEMI FLEXIBLE FLAT SEALANT

Sealing gel with high adhesive power for all flanges, including vertical flanges. Replaces conventional seals with complex shapes: pump housings, motors, gear boxes etc. Also recommended for threaded metal seals with «medium resistance» when dismantling.

PMUC

■ red
T°: **-60 to +150°C**
Shearing strength: **>8 N/mm²**
Setting time at 20°C: **10 to 25 mn**
PMUC: **16-0072**

1333E4	25 ml syringe
1333T2	50 ml tube
1333T4	200 g tube
1333C3	300 g cartridge
6333T2 PMUC	50 g tube

ORAJOINT 324

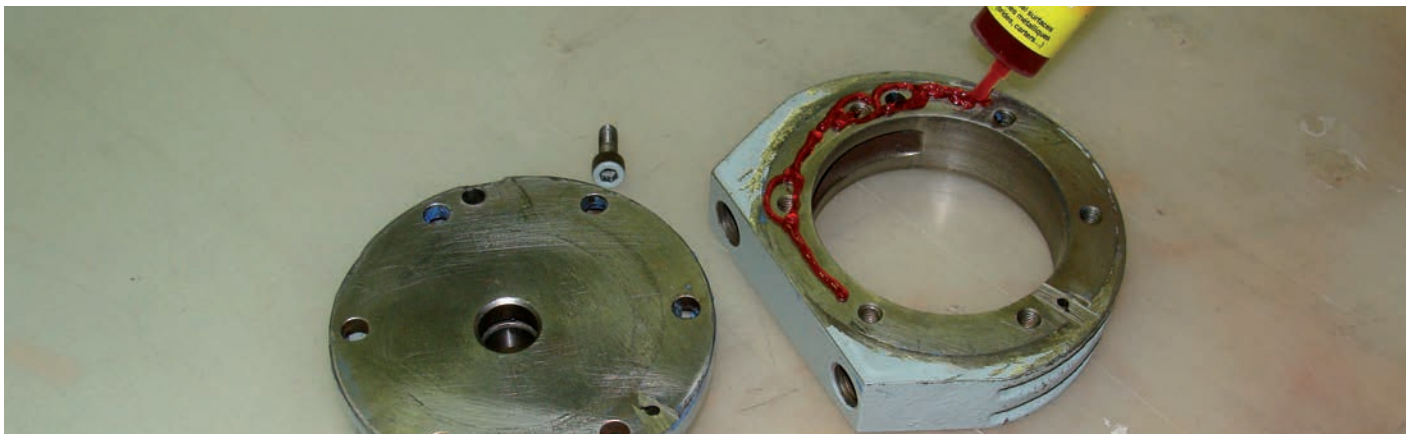
FLAT SEALING

Sealing of machined close mating surfaces. Withstands vibrations, industrial fluids, oils and gases. Recommended for complicated close mating surfaces: pump housings, motors, gearboxes etc. Also recommended for threaded metal seals with «medium resistance» when dismantling.

PMUC

■ red
Handling time: **5 to 25 mn**
T°: **-60 to +180°C**
Shearing strength: **>15 N/mm²**
PMUC: **16-075**

1324T2	50 ml tube
6324T2 PMUC	50 g tube



FLAT SEALING

TUBELOCK C 367

PIPES AND NOZZLES

Sealing of threaded metal tubes and fittings up to 3 inches, for a speedy restart and medium resistance when dismantling. Low pressure sealing within minutes. Resistant to most chemical products. Quick setting on steel and brass. For stainless steel fittings, ACTIVATEUR 3140 should be used.

- yellow-orange
- Handling time: **2 to 10 min** on steel
- T°: **-60 to +150°C**
- Breaking strength: **10 - 20 N.m**

1367F7	50 ml squeeze bottle
1367T2	50 ml tube
1367T4	200 ml tube

TUBELOCK EXTRA 077

SEALING OF FITTINGS AND PLUGS

Multi-purpose, single-component anaerobic adhesive for sealing metallic threaded caps, pipes and connections. Effective on all types of metal at low and high pressure. Sealant for hot and cold water, solvents, oils, refrigeration, petrol, compressed air and gas. Heaters, toilets, air conditioning, hydraulic and pneumatic mechanisms, vehicles, etc.

- yellow-orange
- **Thixotropic putty**
- Continuous operating T°: **-60 to +150°C**
- Resistance : **10 to 20 N.m**
- Setting time at 20°C: **< 5 min** copper and copper alloys. **2 to 10 min** on steel. **< 30 min** sur inox.
- Maximum operation gap: **0,4 mm**

1077F7	50 ml squeeze bottle

TUBELOCK TEFLON® 334

EASY DISMANTLING

Paste for pipes and fittings up to 3 inches. Teflon® adds a lubricating effect which facilitates assembly and dismantling, notably in places that are difficult to access.

- blue
- **paste**
- Handling time: **5 to 20 mn on steel**
- T°: **-60 to +150°C**
- Breaking strength: **1 to 8 N.m**

1334T2	50 ml tube

TUBELOCK A 323

COARSE THREADS

Paste for the sealing of pipes and hydraulic connections with big diameter, with medium resistance. Possible dismantling with standard tooling without damaging threads. Replaces pastes and tapes on all pipes, fittings etc. in plumbing, heating, mechanical applications.

- red
- **paste**
- Handling time: **3 to 15 mn**
- T°: **-60 to + 150°C**
- Breaking strength: **5 - 15 N.m**

1323F7	50 ml squeeze bottle

FLAT SEALING

HYDRAULOCK 329

HYDRAULIC/PNEUMATIC

Low resistant sealing gasket for pneumatic and hydraulic thread connections up to 3/4 inch. Withstands shocks, vibrations, most gases and fluids, hot/cold water etc. Easy dismantling using standard tools. Replaces pastes, hemp and tapes on all pipes, fittings etc. in plumbing, heating, mechanical applications.

■ **brown**
Handling time: **5 to 10 mn on steel**
T°: **-60 to +150°C**
Breaking strength: **5 to 10 Nm**

1329F3	50 ml bottle
1329F5	250 ml bottle

HYDRAUBLOCK 326

SMALL DIAMETER FITTINGS

Sealing of threaded metal fittings and tubes up to 3/4 inch, with medium resistance when dismantling. Withstands shocks, vibrations, most gases and fluids, hot/cold water etc. Easy dismantling using standard tools. Replaces pastes and tapes on all pipes, fittings etc. in plumbing, heating, mechanical applications.

■ **red**
Handling time: **10 to 25 mn**
T°: **-60 to +150°C**
Breaking strength: **10 to 20 N.m**

1326F3	50 ml bottle
1326F5	250 ml bottle

ETANCHELOCK 322

SEALING BY INFILTRATION

Very fluid adhesive using capillary attraction to penetrate threads, cylindrical parts and metal pores. Gap: 0.1mm max. For locking, ring and bearing fastening or post-mounting sealing operations in applications where pre-assembly adhesive application is impossible.

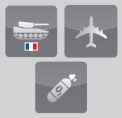
■ **green**
very fluid
Handling time: **10 to 30 mn**
T°: **-60 to + 150°C**
Breaking strength: **> 20 N.m**

1322F3	50 ml bottle

JOINT LIQUID 331

PTFE-BASED PIPES

PTFE-based seal for metal fittings, hydraulic, pneumatic and heating pipes up to 3 inches where medium dismantling resistance is required. PTFE brings an excellent chemical stability. Facilitates assembly and dismantling.



□ **white**
Handling time: **20 to 40 mn**
T°: **-60 to 180°C**
Breaking strength: **5 to 13 N.m**

1331T2	50 ml tube
1331T4	200 ml tube

PORALOCK 328

THREAD SEALING, HIGH RESISTANCE

Liquid sealing compound for metal, hydraulic or pneumatic fittings and threaded fittings subjected to severe vibration. Unaffected by hydraulic and synthetic fluids, most industrial fluids and gases, hot and cold water etc. Replaces pastes, hemp, tapes.

PMUC

■ **green**
viscous liquid
T°: **-60 to +150°C**
Shearing strength: **> 15 N/mm²**
M10 steel rekease: **> 25 N.m**
Setting time at 20°C: **¹0 to 25 min**
PMUC: **16-071**

6328F3	50 ml bottle

FOR AN ESTIMATE, ADVICE
OR SPECIFIC REQUEST

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FOCUS ON STRUCTURAL BONDING

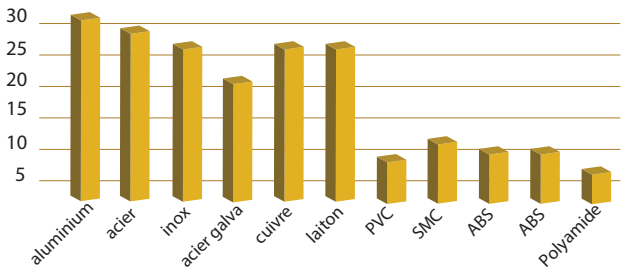
Gluing is a wide-ranging subject as the shape of parts, the nature of the surfaces, size, mechanical and thermal stresses vary depending on the customer.

Our engineers look at a wide range of specific situations every day; in the following pages, we will help you find the right solution for your needs.All our adhesives are tested on different traction and shearing devices to accurately identify the performance which can be expected of them.

Not only can we help with the choice of adhesive, but we can also provide you with adhesives for manual use for minor or occasional operations, as well as adhesives designed for industrial use, complete with glue applicator by way of example..

Average shearing strength in N.mm²

48 hour cure at 25°C



Exemple: 201-OREPOX 30

1 A range of DUAL-COMPONENT epoxy, polyurethane and acrylic adhesives.

These adhesives are comprised of a resin component and a hardener component, and begin to polymerise as soon as they are mixed together. The adhesive can be used to fabricate parts or replace materials.

Primary applications include:

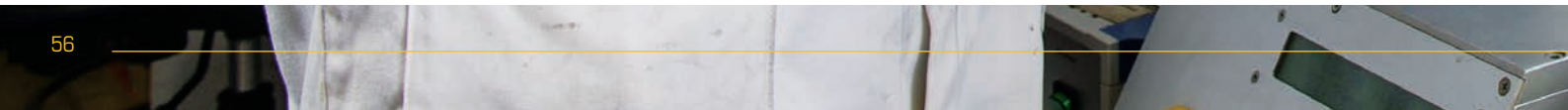
- Gluing part with large or irregular gaps.
- Sealing and repairing holes, cracks and repairing/gluing parts with pieces missing.

2 A range of FLEXIBLE ADHESIVE MASTICS: odourless acetic silicones, PU and MS+

These single-component adhesives polymerise at room temperature thanks to the moisture in the air, which is why the adhesive must be left in the open air before assembly.

Primary applications include:

- Flexible gluing and sealing, soundproofing.
- Often recommended for assemblies subjected to vibrations or when the assembled materials have different expansion coefficients.



ASSEMBLE 2

BOND
SEAL
FIX
REPAIR

WE HELP YOU CHOOSE:

Thank you for choosing ORAPI adhesives; the table below will help you select the adhesive best suited to your application.

This choice does not take into account the usage conditions, temperature and other criteria which must be submitted to our technicians who are there to help you all year round.

STRUCTURAL BONDING PRODUCTS

	WOOD	STEEL	COPPER	GLASS	PVC	RUBBER (NITRILE)	PLASTIC	ALUMINIUM	STAINLESS STEAL	PAPER CARDBOARD
WOOD	400 125 352									
STEEL	373 390	310 373 390								
COPPER	373 125	355 310	202 310							
GLASS	373 390	390	355	125 100 355						
PVC	355	355	355	125	355					
RUBBER (NITRILE)	355	355	390	125	355	355				
PLASTIC*	355 390	125 390	125 390	125	355	355	355			
ALUMINIUM	390	125 390	202 390	355	390	202 390	355	390 125		
STAINLESS STEEL	390 125	390	390	390	373	390	390	390	390	
PAPER CARDBOARD	400 spray can	400 aerosol	•	400 aerosol	400 aerosol	400 aerosol	400 aerosol	400 aerosol	400 aerosol	400 aerosol

*Except PE, PP and silicone

STRUCTURAL ADHESIVES

OREPOX 30 — 201

30 MIN SETTING EPOXY

Repair and rigid adhesion of most materials: ceramic, wood, cement, metal etc. Sticking of pieces with poor calibration with important or variable gap. Setting time allows user to set up the pieces.

- yellow
- Mixture ratio: **1/1**
- T°: **-40 to +100°C**
- Shelf life of mixture: **> 45 mn**
- Shearing strength: **15 MPa**

1201E3	50 ml syringe

OREPOX 5 — 202

FAST-ACTING EPOXY, SETS IN 5 MIN

Epoxy resin with quick setting. Repair and rigid adhesion of most materials: ceramic, wood, cement, metal etc. Rapid gluing of poorly aligned or unaligned parts with large or variable gaps.

- **colourless**
- Mixture ratio: **1/1**
- T°: **-40 to +100°C**
- Shelf life of mixture: **4 to 5 mn**
- Shearing strength: **15 MPa**

1202E1	28 g syringe
1202E3	50 ml syringe
1202K7	1 kg kit

ADHERLOCK 73 — 390

REACTIVE CONTACT ADHESIVE

Non-mix dual-component acrylic adhesive. Bonding of all metals with exceptional performance. Also glues wood, glass, ceramics, plastic etc. Easy to handle, rapid and very effective.

- Pale yellow
- T°: **-60 to +150°C**
- Setting time: **5 mn**

1390K1	80 g (70+10)
1390K4	1.1 kg (1+0,1)
1390K5	5,25 kg kit (5+0,25)

ACTIVATEUR A — 395

ACTIVATOR FOR ADHESIVE 390

Although this product is included with adhesive 390, it is also available separately so that customers who may have used too much activator, for instance on porous surfaces, can restock.

- Pale **yellow**

1395F5	250 ml bottle

ORALOC HDI — 391

HIGH-PERFORMANCE CONTACT ADHESIVE

Acrylic bi-component with quick setting.
Wood, metal, ceramics, plastic etc.
Excellent resistance to shocks and vibrations.
Facilitates the gluing of badly damaged parts.
Remains very stable over time.

- **dark brown**
- T° :**-40 to +120°C**
- Setting time: **10 mn**

1391E3	50 ml syringe
1391K3	Kit 600 ml (2*300)
1391KB	Kit 10 kg (2*5)

REPAIR EPOXY

ORAMETAL A 210

EPOXY PASTE CONTAINING STEEL

Liquid epoxy used for the construction of moulds and templates, filling of micro-pores, general repairs and, more specifically, crack repairs.

■ **dark grey**
Proportion: **100/7**
T°: **-35 to +120°C**
Shelf life of mixture: **1hr**
< 10 min for 28 g
Machinable: **16hrs**

1210E1	28 g syringe
1210K2	Kit 500 g

ORAMETAL F 212

EPOXY PASTE CONTAINING ALUMINIUM

To be applied like putty for defects and cracks reparation on moulded or machined alloy pieces. Aluminium charge is light and corrosion resistant. After polishing, the surface has a shade very similar to aluminium colour.

■ **aluminium**
Proportion:
1/1 syringe
5/1 kit
T°: **-35 to +120°C**
Shelf life of mixture: **1hr**

1212E1	28 g syringe
1212K2	540 g kit

ORAMETAL POCKET 221

PRE-MEASURED LOADED MASTIC STEEL

Repair of all supports (wood and metal). Pre-measured, it is very easy to use and avoids any waste. Repairs moulds, leaky pipes, broken tools, etc. Does not rust and can be used under water. Can be pierced, threaded, and painted after polymerisation.

■ **dark grey after mixing**
T°: **-50 to +120°C**
Shelf life of mixture: **approx. 4 mn**
Machinable: **30 mn to 1h**
Max. resistance: **in 24 hrsrs**

1221D3	57 g stick
1221D1	115 g stick

ACETIC SILICONES

LUBRISEAL RTV ACETIQUE 100

TRANSPARENT ADHESIVE MASTIC

Flexible bonding and sealing. Metal, glass and ceramic parts, expansion joints, wire insulation, etc. Soundproofing, insulation and mechanical applications.

1100C3	310 ml cartridge
6100T3 PMUC	100 g tube
6100C3 PMUC	310 ml cartridge

PMUC

transparent
T°: **-65 to +250°C**
Film formation : **10 mn**
Complete drying : **24 hrs**
Shore A hardness: **25 - 33**

LUBRISEAL RTV ACETIQUE 101

WHITE ADHESIVE MASTIC

Flexible bonding and sealing. Metal parts, glass, ceramic, expansion joints, wire coating etc. Insulation of electrical wires and appliances. Soundproofing, insulation and mechanical applications.

1101T3	100 g tube
1101C3	310 ml cartridge

white
T°: **-65 to +250°C**
Film formation : **10 mn**
Complete drying : **24 hrs**
Shore A hardness: **15-25**

JOINT BLUE AUTO 102

UNIVERSAL BLUE ADHESIVE MASTIC

Replaces cut gaskets on housings, manifolds, doors, covers, etc. even damaged. Adheres to all materials. Resistant to oil, gas, antifreeze, etc. Does not drip. Ideal product for mechanics and industrial maintenance services.

1102T3	100 g tube
1102C3	310 ml cartridge

blue
T°: **-65 to +250°C**
Film formation : **10 mn**
Complete drying : **24 hrs**
Shore A hardness: **15-25**

LUBRISEAL RTV ACETIQUE 103

HIGH-TEMPERATURE ADHESIVE MASTIC

Flexible bonding and sealing product for use in maintenance, flues and chimneys, glass works (heating appliances, domestic appliances, industrial furnaces). Remains flexible and stable up to +310°C. Does not drip.

1103T3	100 g tube
1103C3	310 ml cartridge

red
T°: **-65 to +310°C**
Film formation : **10 mn**
Complete drying : **24 hrs**
Shore A hardness: **35-45**

LUBRISEAL RTV ACETIQUE 104

BLACK MULTI-PURPOSE ADHESIVE MASTIC

To be used without gun. Black adhesive mastic for sealing crankcases, manifolds, doors, covers etc. Easy to use thanks to its pressurised canister. Light pressure on the nozzle provides a steady stream of sealant.

1104A7	200 ml pressurised canister

black
T°: **-60 to +240°C**
Film formation : **10 mn**
Complete drying : **24 hrs**
Shore A hardness: **15-25**

JOINT METAL 145

GREY ADHESIVE MASTIC, SPECIFICALLY DESIGNED FOR USE IN THE PRESENCE OF OIL

Flexible sealant resistant to oils. Replaces pre-cut seals on crankcases, manifolds, doors, covers etc. for water, oil and solvent proofing. High mechanical resistance to corrosive fluids. Does not run, can be used also on crankcases with planarity defects.

1145T3	100 g tube

grey
T°: **-65 to +250°C**
Film formation : **10 mn**
Complete drying : **24 hrs**
Shore A hardness: **20-30**

PRIMAIRE 4004 020

SPECIAL ADHESIVE MASTIC

Improves bonding adhesion and increases bonding reliability. Suitable for adhesive mastics on surfaces with low surface energy: concrete, steel, wood etc. Easy to use: apply the adhesive onto the dry primer.

1020F6	500 ml bottle

colourless to pale yellow
liquid

ODOURLESS SILICONES

LUBRISEAL RTV INODORE 110

TRANSPARENT BONDING AND SEALING

Adhesive and sealant for metal parts, glass, ceramics, dilation seals, cables coating, cables and electrical device insulation. Soundproofing, insulation.

transparent
T°: **-50 to +150°C**
Film formation : **15 to 20 mn**
Complete drying : **24 hrs**
Shore A hardness: **15-25**

1110C3	310 ml cartridge

LUBRISEAL RTV INODORE 111

WHITE SEALING AND BONDING PRODUCT

Flexible self-adhesive product usable on all surfaces: wood, aluminium, glass etc. Does not corrode metal surfaces. Excellent resistance to moisture and oil. Sealing of sanitary facilities.

white
T°: **-50 to +150°C**
Film formation : **15 to 20 mn**
Complete drying : **24 hrs**
Shore A hardness: **15-25**

1111C3	310 ml cartridge

OTHER ELASTOMERS

ORABOND 2K 129

OFF WHITE SEALING AND BONDING PRODUCT

Flexible, bi-component quick-setting putty glue formulated for bonding and sealing on all materials. This new generation hybrid polymer glue is odourless and has higher tensile, tearing and shear strength than silicones and polyurethanes.

Off white
T°: **-40 to +90°C**
Shore A hardness: **40-50**

1129C6	250 ml cartridge
700093	Canule

ORABOND WHITE 125

VERY HIGH PERFORMANCE PRODUCT

Bonds, assembles and seals everything. Newgeneration elastic putty sealant. Excellent adhesion to stainless steel, aluminium, wood, zinc, lacquer, stone, glass wool, chipboard, etc. Can be applied onto humid surfaces and surfaces completely immersed under water. Can be painted. Odourless. Does not drip. Ideal for replacing stainless steel/ stainless steel welds. Very high tackiness.

white
T°: **-40 to +150°C**
Shore A hardness: **45-60**
Consumption: 1 cartridge = **1.5 m² or 15 m**

1125C6	290 ml cartridge

ORABOND 126

HIGH-PERFORMANCE

Bonds, assembles and seals everything. New-generation elastic adhesive mastic. Excellent adhesion to stainless steel, aluminium, wood, zinc, lacquer, stone, glass wool, chipboard, etc. Can be applied onto wet and fully immersed surfaces. Can be painted over. Odourless. Does not drip. Ideal for sealing/bonding the plastic cases of industrial remote controls.

black
T°: **-40 to +100°C**
Shore A hardness: **40-60**

1126C6	290 ml cartridge

ORABOND CRISTAL 128

PERFECT TRANSPARENCY

Bonds, assembles and seals everything. Newgeneration elastic putty sealant. Excellent adhesion to stainless steel, aluminium, wood, zinc, lacquer, stone, glass, PMMA etc. Can be applied onto wet and fully immersed surfaces. Can be painted over. Odourless. Does not drip. Ideal for bonding transparent glass and plastic.

transparent
T°: **-40 to +100°C**
Shore A hardness: **30-40**

1128C6	290 ml cartridge

SEAL PU 120

MULTI-MATERIALS

Single-component polyurethane elastomer adhesive for general use. Polymerises at room temperature. Used for the bonding (and sealing) a wide range of materials including wood, glass, plastic, cement etc. It is particularly well suited to applications where good seal flexibility is required. Can be painted over. Odourless. Does not drip.

grey
T°: **-20 to +80°C**
Shore A hardness: **35-45**

1120C3	310 ml cartridge

SEALING

SEALFLON LIQUID 341

LIQUID TEFLON® TAPE

Aqueous fluid containing PTFE. Seals threads and flat gaskets. Let it dry before mounting (can be stoved). After drying, leaves a flexible film allowing an easy dismantling and to be mounted again later. Prevents excess thickness. Protect threads against seizing.

- white
- T°: **-50 to +250°C**
- Gap: **0,15 mm max**
- VOC content: **0%**

1341B4	250 ml tin with brush
1341S1	5 l bucket

SEALFLON 340

PTFE PASTE TAPE

Aqueous paste sealing compound containing PTFE, that creates a flexible seal easy to dismantle. Resists vibrations and chemicals. Seals threads and flat gaskets. Prevents excess thickness. Instantly seals PVC pipes. Let it dry before mounting.

- white
- T°: **-50 to +250°C**
- Gap: **0,3 mm max**
- VOC content: **0%**

1340T3	100 g tube
134002	20 kg drum

JOINTPLAST 133

PLASTIC THREAD SEALANT

Seals threaded plastic-to-plastic and mixed material (plastic/metal) fittings. Compatible with gas, cold and hot water. Forms low pressure seals on contact and seals capable of withstanding 10 bar after 24h. Easy dismantling. Allows crankcases, electric boxes, etc. to be filled so that components can be insulated and secured.

- red
- **self-levelling viscous liquid**
- T°: **-50 to +250°C**
- Maximum gap recommended: **0,4 mm**

1133T3	100 g tube

ORAPLAST'X 348

FLEXIBLE, ELASTIC PASTE

Temperature and pressure resistant Insoluble in most liquids. Retains its plasticity. Sealing and bonding of crankcases, close mating surfaces, valves, carburettors, flanges, valve covers, clutches, fittings, pipes, heating, pumps, compressors etc. Ideal for the automotive industry, petrol stations, refineries and the chemical and petrochemical industries.

- orange
- T°: **-20 to +250°C**

1348T4	200 g tube
1348B7	1 kg tin

NUCSEAL N PMUC 346

NON HARDENING, HALOGEN-FREE

For sealing close mating surfaces and threaded fittings subject to severe vibrations.
Replaces or bonds paper gaskets and other pre-cut gaskets. Helps create leak-proof seals of any shape, including complex ones. Instantly forms a low pressure seal.

- blue
- **viscous liquid**
- T°: **-50 to +300°C**
- Cl - F - S - Br: **< 200 ppm**
- PMUC: **17-0386**

6346T3	100 g tube

OXYSEAL 051

WITHSTANDS OXYGEN AND EXTREME TEMPERATURES

Seals flanges, threads and close mating surfaces and withstands pressures of up to 200 bar and contact with oxygen. Compatible with liquid gas oxygen. Dries slowly.

- light grey
- T°: **-250 to +600°C**
- Full pressure resistance: **24 hrs**

1051T3	100 ml tube

ORASEAL 342

NON-HARDENING THREAD SEALANT

For sealing close mating surfaces and threaded fittings subject to severe vibrations. Replaces or bonds paper gaskets and other pre-cut gaskets. Helps create leak-proof seals of any shape, including complex ones. Instantly forms a low pressure seal.

- green
- **viscous liquid**
- T°: **-50 to +300°C**

1342T3	100 g tube
1342B4	250 ml tin with brush
1342B7	1 kg tin

ORASEAL + 343

NON-HARDENING PASTE

For sealing vertical mating surfaces. Substitute paper gaskets or make them stick. Helps create leak-proof seals of any shape. Instantly forms a low pressure seal. Allows to use the seal again after dismantling. At room temperature, can be used as a thread locking agent, ideal for use on adjustment screws in mechanical devices and musical instruments.

- green
- **Paste**
- T°: **-50°to +300°C**

1343T3	100 g tube
1343C3	310 ml cartridge

THERMIQUE PMUC 418

HIGH-TEMPERATURE PUTTY GLUE

Silicone-free putty glue. Jointing, bonding and sealing, specifically formulated to withstand very high temperatures. Asbestos-free. Hardens completely, to the very centre. Do not use in contact with water. For cracks or holes filling-in, over metal, stones or concrete… Stoves, boilers, furnaces, open fireplaces, probes, car exhaust pipe fittings.

PMUC

■ **Anthracite grey**

thick paste

T°: **-40 to +1 200°C**

Thickness: **5 to 15 mm**

Shore A hardness: **70 to 90**

PMUC: **17-0385**

1418C3	310 ml cartridge

COLLE REPOSITIONNABLE 477

POST-IT TYPE GLUE IN AEROSOL

Immediate adhesion. Posters or labels can be repositioned easily up to several weeks after gluing. For gluing light materials: photos, films, cork, foam board, decorations.

■ **beige**

Setting time: **immediate**

Consumption: **1 aerosol = 7 m²**

4477A4	650 ml aerosol

NEOPRENE 400

MULTI-PURPOSE CONTACT ADHESIVE

Instant setting on rubber, leather, fabric, cork, metals, laminates. Flexible, high efficiency. Very high resistance to pull out, excellent resistance to moisture. Applied to both surfaces (150 ml/m2 per side).

■ **beige**

Setting time: **5 to 15 mn**

Max T°: **+90°C**

Resistance to peeling: **15 kg/cm²**

4400A4	650 ml aerosol
1400T3	100 ml tube
1400B7	1 l tin
1400S1	5 l bucket

MOUSSE PU 474

INSULATING FIRE-RETARDANT FOAM

80% closed cell expanding foam for thermal and acoustic insulation and caulking. Gas, smoke, flame and water tight. Doors mounting, windows and other articles designed to slow down fire propagation, including in high schools, local authorities and hospitals. Must be applied onto wet surfaces.

■ **grey**

very sticky foam

T°: **-60 to +100 °C**

Fire resistance: **120 mn**

Coverage: **20 to 35 litres/aerosol**

4474A6	1000 ml aerosol

ADHERENT COURROIES 953

STOPS DRIVE BELTS FROM SLIPPING

Triples belt adherence for rubber, leather, canvas, or composite. Prevents belts from hardening while eliminating power loss. Treated belts wear more slowly and transmit power more effectively. Helps position pre-cut gaskets onto crankcases. For treating conveyor belts to provide better grip.

■ **yellow**

liquid

Max T°: **+80°C**

4953A4	650 ml aerosol

GLUES 3

In the rapid bonding field, ORAPI has developed solutions suitable for all applications: from ultra fluid and rapid glues to thick gels for porous materials or vertical applications. To respond to our customers' specific requests, we have also developed tinted glues and glues with additives to increase flexibility.

Cyanoacrylates are single-component glues which polymerise at room temperature when the adhesive is in contact with both surfaces.

The moisture in the air neutralises the stabilising agent and triggers the polymerisation process.

These glues should be used when there is no gap between the surfaces.

ADVANTAGES :

- A small drop is all that is required and the glue can be applied with ease.
- Glues practically everything in seconds.
- Excellent shearing and tensile strength.

STORE IN A COOL PLACE

Shelf life: 10 to 12 months

ACTIVATORS/PRIMERS

ACTIVATEUR 6140 025

SPECIFICALLY FOR GLUES

Decreases setting time significantly for glues and enables polymerisation outside of gluing area. Apply ACTIVATEUR 6140 on one of the surfaces and the glue on the other surface or directly on the glue to activate polymerisation.

colourless liquid
Evaporates quickly

4025A1	210 ml aerosol
1025i2	1 l container

PRIMAIRE 3450 021

SPECIFICALLY FOR GLUES - MULTI-PURPOSE

Improve the adhesion of glues on all difficult to tape materials, except silicone.
Apply PRIMAIRE 3450 onto both surfaces and allow it to evaporate (1 to 2 min), then apply the glue.

yellow-orange liquid

1021F2	20 ml bottle

DECOLLEUR 3720 408

GLUE CLEANING AND REMOVAL

Cleaning solvent for glue applicators and work tables with glue on them. Separation of glued assemblies. Works by soaking. Liquid to be used in a well ventilated area.

PMUC

transparent liquid
Cl - F - S - Br: **< 200 ppm**
PMUC: **16-054**

6408F2 PMUC	20 g bottle
1408i2	1 l container

STORE IN A COOL PLACE
Shelf life: 10 to 12 months in a cool place.

GLUES

C 2000 — 354

UNIVERSAL

Very rapid bonding cyanoacrylate glue for all materials. Excellent for gluing wood, leather, fabric, ceramics, plastic, glass, rubber etc. Mechanical devices, electronics, optics, jewellery, watch making, toys, plastics processing, domestic appliances, knick-knacks, tableware. All materials except Teflon, polyethylene and derivatives.

colourless
T°: -55 to +80°C
Viscosity: 80 - 120 cP
Setting time : 5 to 60 seconds
Shearing strength: > 25 MPa

1354F1	5 g bottle
1354F2	20 g bottle

C 3000 — 373

MULTI-PURPOSE

Ultra quick-setting glue thanks to a specific and unique catalyst, suitable for all materials. Strong resistance on wood, plastic, leather, PVC, ceramics and metals. Ideal for surfaces that are difficult to glue.

colourless
T°: -60 to +100°C
Viscosity: 80-120 cP
Setting time: 5 to 40 s
Shearing strength: 27,5 MPa

1373F1	5 g bottle
1373F2	20 g bottle
1373F3	50 g bottle
1373F6	500 g bottle

SUPER GEL — 352

VERY THICK GEL

Glue as a very thick gel for all usage requiring a viscous products. For vertical or down under sticking or with porous materials. For all materials, does not run.

colourless
Viscosity: gel
Setting time: 5 to 60 s
Shearing strength: 27,5 MPa

1352C3	300 g cartridge
1352T7	20 g tube

C 2040 — 355

ELASTOMER

Quick-setting adhesive for bonding rubber joints, plastic, glass and O-rings.

colourless
T°: -50 to +80 °C
Viscosity: 20-40 cP
Setting time: 5 to 60 s
Shearing strength: 27,5 MPa

1355F1	5 g bottle
1355F2	20 g bottle
1355F3	50 g bottle
1355F6	500 g bottle

C 3610 — 361

FLEXIBLE AND UNIVERSAL

Adhesive for universal gluing. Flexible glue. Ideal for construction.

colourless
T°: -50 to +80°C
Viscosity: 80-120 cP
Setting time: 10 to 60 s
Shearing strength: 10 to 15 MPa

1361F2	20 g bottle
1361F6	500 g bottle
136101	20 kg drum

C 2000/5 — 359

VERY FLUID AND ULTRA QUICK

Quickest glue for all materials. Very liquid adhesive for gluing by infiltration and capillarity on very smooth surfaces and small gaps. Ideal for automatic gluing systems with repeating application and high work pace.

colourless
T°: -60 to +100°C
Viscosity: 3-10 cP
Setting time: very quick
Shearing strength: 27,5 MPa

1359F2	20 g bottle
1359F6	500 g bottle

STORE IN A COOL PLACE
Shelf life: 10 to 12 months in a cool place.

GLUES

GEL CYANO 351

THIXOTROPIC GEL

Glue with quick setting for vertical or down under sticking or with porous material like wood. Sticks on most materials: aluminium, ABS, PVC, metals, wood…

colourless
T°: **-50 to +80°C**
Viscosity: **fluid gel**
Setting time: **10 to 60 s**
Shearing strength: **10 to 30 MPa**

1351F2	20 g bottle
1351F3	50 g bottle
1351F6	500 g bottle

C 2000 CMM 353

GEL FOR METALS

Sticking of porous metals or for vertical or down under mounting. Adheres to most metals and materials that are difficult to bond with a standard gel.

colourless
T°: **-50 to +80°C**
Viscosity: **1000 - 2000 cP**
Setting time: **10 to 60 s**
Shearing strength: **10 to 30 MPa**

1353F2	20 g bottle

C 3600 356

DIFFICULT RUBBER

Ultra quick-setting adhesive for the bonding of PVC, rubber joints etc. Bonding of polyolefins after surface preparation with 022.

colourless
T°: **-50 to +80°C**
Viscosity: **20 - 40 cP**
Setting time: **2 to 30 s**
Shearing strength: **26,3 MPa**

1356F2	20 g bottle
1356F6	500 g bottle

HALOGEN-FREE

C 5000/14 385

MULTI-PURPOSE

Fluid glue with ultra rapid setting thanks to a special catalyst. Multi-purpose: glass, plastic, metals, wood etc. Chlorine-free, sulphur-free, fluorine-free, bromine-free.

PMUC

colourless
T°: **-50 to +80°C**
Viscosity: **80-120 cP**
Setting time: **5 to 40 s**
Shearing strength: **27,5 MPa**
PMUC: **16-053**

6385F1	5 g bottle
6385F2	20 g bottle

C 5040 386

ELASTOMERS AND PLASTICS

Quick-setting chlorine-free, sulphur-free, fluorinefree and bromine-free adhesive for bonding rubber joints, plastic, glass and O-rings.
Good resistance to humidity. Bonding of silicone joints after surface preparation with 021.

PMUC

colourless
T°: **-50 to +80°C**
Viscosity: **20 - 40 cP**
Shearing strength: **> 25 MPa**
PMUC: **16-052**

6386F1	5 g bottle
6386F2	20 g bottle

C 5000 CM 384

MULTI-PURPOSE GEL

Quick-setting chlorine-free, sulphur-free, fluorinefree, bromine-free gel for the vertical or inverted bonding of porous materials such as wood. Sticks on most materials: aluminium, ABS, PVC, metals, wood…

PMUC

colourless
T°: **-50 to +80°C**
Viscosity: **1000 - 2000 cP**
Setting time: **20 to 90 s**
Shearing strength: **10 to 30 MPa**
PMUC: **16-047**

6384F1	5 g bottle
6384F2	20 g bottle

STORE IN A COOL PLACE
Shelf life: 10 to 12 months in a cool place.

COLOURED GLUES

BLANCHE S 377

WHITE, UNIVERSAL

White and universal adhesive with quick setting and strong mechanical resistance. Flexible bonding of materials subject to shocks and vibrations. Ideal for mounting and repairing of white materials and to localise glued pieces thanks to the colour. Used in the cosmetic and skiing industries.

□ white
T°: -50 to +80°C
Viscosity: 800-1500 cP
Setting time: 10 to 60 s
Shearing strength: 15 to 30 MPa

1377F2	20 g bottle

C 3000 DF 378

BLACK, UNIVERSAL

Black and universal adhesive with quick setting and strong mechanical resistance. Flexible bonding of materials subject to shocks and vibrations. Ideal for the bonding and repair of black materials and for locating bonded parts thanks to its colour.

■ black
T°: -50 to +80°C
Viscosity: 200-250 cP
Setting time: 10 to 140 s
Shearing strength: 15 to 30 MPa

1378F2	20 g bottle
1378F6	500 g bottle

C 3000 AF 371

BLACK GEL, SHOCK RESISTANT

Quick setting adhesive for vertical or down under gluing, porous materials, when assembly is exposed to shocks, flexible mounting. Its black colour makes it easy to see.

■ black
T°: -50 to +80°C
Viscosity: 1000 cP
Setting time: 20 to 60 s
Shearing strength: 15 to 30 MPa

1371F2	20 g bottle
1371F6	500 g bottle

C 3000 HU 363

FLUID, BLACK AND FLEXIBLE

Universal adhesive with quick setting. For bonding surfaces that are subject to shocks and vibrations. Designed for bonding and repairing black materials. High-strength bonding, ideal for the automotive industry for seals, hoses etc.

■ black
T°: -50 to +80°C
Viscosity: 20 - 40 cPs
Setting time: 5 to 30 s
Shearing strength: 15 to 30 MPa

1363F6	500 g bottle

ORAPI PROCESS

FOR AN ESTIMATE, ADVICE
OR SPECIFIC REQUEST

TEL.: +33(0)4 74 40 20 20
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CONTACT@ORAPI.COM

THOROUGH PROTECTION

Your work, your tools, your machines and your personnel are valuable; this is why ORAPI constantly endeavours to improve its products to provide protection against corrosion, scratches, splattering and accidents.

OUR PROTECTION RANGE COVERS

5 DOMAINS

1 ANTI-CORROSIVE PAINT

All our paints have been designed to provide the best possible VOC coverage, optimised safety and include carefully selected fillers so as to guarantee the highest salt spray resistance on the market.

2 PROTECTION AGAINST LEAKS AND CRACKS

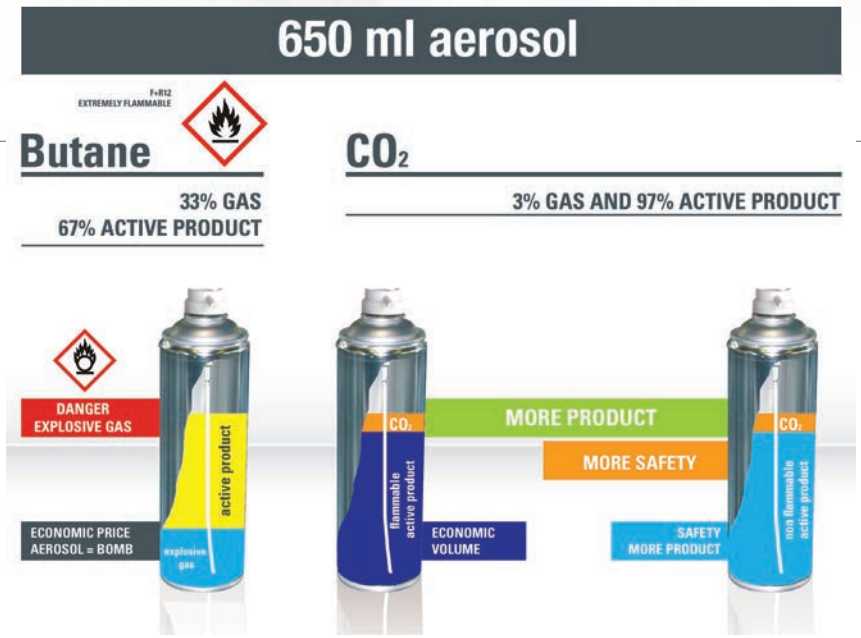
As all gas leaks can be dangerous and costly, we offer products designed to detect leaks and cracks.

3 WELDING PROTECTION

This range helps protect metals against welding spatter.
Always conscious of environmental and user safety issues, we offer aqueous and biodegradable products.

PROTECT

STORAGE
WELDING
SAFETY



4

PROTECTION OF INDIVIDUALS

Your staff are valuable; let's make their working environment as safe as possible:

anti-slip, anti-fall products, antipuncture products etc. including marking paints, various kinds of absorbent products, insecticides, de-icing products, hole and pothole repair products etc.

5

STORAGE PROTECTION

Machined parts and other valuable components need to be protected during storage and transport.

This is why we have developed oily, waxy and dry protective varnishes that come in peelable and non-peelable, coloured or colourless versions so that each of our customers can find the right solution for their components and requirements - with or without initial parts cleaning.

CORROSION INHIBITING PAINT

NZA B 706

GLOSS GALVANISATION

Exceptional, long-lasting protection against corrosion (up to 3 years) for all metal parts. Coating with high zinc content giving a gloss finish. Can be used as a finish under-layer. Efficient, even in corrosive and marine conditions.

- Shiny grey
- T°: **-50 to +200°C**
- Salt spray: **> 400 h for 20 µm**
- Spray coating: **5 µm**
- Volume coverage: **2 m² / aerosol**

4706A4	650 ml aerosol
2706B7	1 kg tin
2706S1	5 kg tub
2706U2	200 kg drum

NZA MAT 650

MATT GALVANISATION

Hard-wearing treatment and long-lasting protection against corrosion (up to 5 years) for all metal parts. Retouching of galvanised parts even under extreme weather conditions. Can be used as a primer for the final coat. Highly effective even in corrosive or marine environments.

- matt grey finish
- T°: **-50 to +200°C en pointe**
- Salt spray: **> 500 hrs**

4650A4	650 ml aerosol
2650B7	1 kg tin

GALVA EXPRESS 699

SPECIFICALLY FOR RETOUCHING

Hard-wearing treatment and long-lasting protection against corrosion (up to 3 years) for all metal parts: slideways, gates, re-welds, pipes, boiler-making, wire netting and tanks. Retouching of galvanised parts. Retouching of parts after hot galvanising. Can be used as a primer for the final coat.

- grey
- T°: **-50 to +200°C**
- Salt spray: **> 250 h**

4699A4	650 ml aerosol

NZA MARINE 653

LONG-TERM PROTECTION

Hard-wearing treatment and exceptional longlasting protection against corrosion (up to 10 years) for all metal parts. Retouching of galvanised parts even under extreme weather conditions. Protects against chemical attacks and mechanical wear. Can be used as a primer for the final coat and provides maximum cathodic protection. High performance even in corrosive and marine environments.

- matt grey
- Salt spray: **> 800 h**
- T°: **-50 to +200°C**

4653A4	650 ml aerosol

CODEROUIL 3000XX

ANTI-RUST LACQUER

Glossy, ultra-quick drying, rust inhibiting lacquer. Highly resistant when used outdoors. Excellent adhesion to a wide range of surfaces. Provides excellent VOC contenterage. Easy to apply. Using CODEROUIL allows you to paint directly onto rusty metal. Nevertheless, for best results, we recommend that you apply the product onto an undamaged surface. Can be used on all surfaces subject to oxidation: metal frames, tanks, pipes, vehicles, machine tools, doors and gates, etc. Ideal for industrial applications, DIY, the automotive industry, plumbing etc.

Aerosol :
- Dust free: **5 min**
- Complete drying: **15 min**

Bulk:
- Dust free: **1 hr min**
- Complete drying: **8 hrs min**
- Resistance at T°: **100°C max.**

300001	white	RAL 9010	520 ml aerosol
300025	black	RAL 9017	520 ml aerosol
300002	white	RAL 9010	1 kg tin
300005	red	RAL 3020	1 kg tin
300008	yellow (gaz)	RAL 1004	1 kg tin
300017	blue	RAL 5017	1 kg tin
300023	grey	RAL 7042	1 kg tin
300026	black	RAL 9017	1 kg tin

NOIR PAINT 710

HIGH TEMPERATURE

Matt black paint for retouching and protecting all metal parts exposed to high temperatures. Protects against corrosion. Ironwork, exhaust pipes, chimneys, barbecue housings.

- matt black
- T°: **-30 to +600°C**

4710A4	650 ml aerosol

ORALU 712

HIGH TEMPERATURE

Glossy aluminium paint for retouching and protecting all metal parts which may be subjected to high temperatures. Protects against corrosion. Ironwork, exhaust pipes, chimneys, barbecue housings.

- grey
- T°: **-30 to +600°C**

4712A4	650 ml aerosol
2712S1	5 l bucket

TRACING - MARKING

FAST LINE 901/909

LINE MARKING

High resistance to abrasion, even with frequent and aggressive traffic such as forklifts. Contains no lead and no chlorine. Excellent VOC contenterage, for marking traffic and safety lines. Compatible with all surfaces: tarmac, bitumen, cement, paint, wood, grass etc. Industry, local authorities, town council technical departments, sports facilities, schools etc.

901 yellow RAL 1023

909 white RAL 9010

Coverage: **80 m/aerosol**

8901A4	650 ml aerosol
8909A4	650 ml aerosol

SPECTRA COLOR 97X

METAL TRACING AND MARKING

Coloured tracing, identification and coding liquid. For marking and identifying different equipment located in the same workshop.
Tracing of drilling or cutting dimensions without marking or damaging the metal by directly marking the negative image onto the SPECTRA COLOUR with a scriber. Available in translucent or matt versions to suit the type of surface. Withstands mineral oils, water and numerous solvents. Approved by many car producers. Cleans off with ORASOLV A 568.

Quick drying

N°	Colour	
970	translucent blue	2970i2 1 l container
971	opaque white	2971i2 1 l container
972	opaque yellow	2972i2 1 l container
973	translucent red	2973J1 5 l jerrycan

GAMME MV 01X

IDENTIFICATION - MARKING - CODING

Marking and identification varnish for validating the warranty. This varnish is used to provide assembly and installation security. Opening the device breaks the seal and provides a quick, visual indication that the device has been tampered with. Can be applied to screws, clips, fastenings and miscellaneous components. Renders screws, bolts and rivets tamper-proof.

T°: **-40 to +200°C**

Dust free: **1 min**

N°	Colour	1 l tin	90 ml bottle	90 ml tube
010	red	1010B7	1010FB	1010T8
014	black	-	1014 FB	-

MARKER 054

WRITES ON ALL SURFACES

For marking and identifying materials in the workplace. Can be used on smooth and rough surfaces. Impermeable and rain-proof, does not clog, does not dry out, always ready to use. Compatible with all materials: paper, cardboard, glass, stone, ceramic, wood, all metals, plastic, rubber, tyres etc.

Dries quickly

Line width: **3 mm**

Coverage: **300 m of writing**

Halogen-free

1054ST	White pen
1054STR	Red pen
1054STB	Blue pen
1054STJ	Yellow pen
1054STN	Black pen

CORROSION PROTECTION

PROTOR 842 — 842

PROVIDES PROTECTION BETWEEN MACHINING OPERATIONS

Fluid, slightly waxy product for protecting stored equipment, injection moulds, etc. against corrosion. De-watering effect. Leaves a very thin protective film compatible with most subsequent operations without cleaning: machining, lubrication etc.

4842A4	650 ml aerosol
28420 1	20 l drum
2842U2	200 l drum

yellow
Salt spray: **> 70 h**

PROTOR SG 100 — 804

MEDIUM-TERM PROTECTION

Corrosion inhibitor providing protection between machining operations. Leaves a strong, waxy film. Coloured version for improved visibility of protected areas. Apply by spraying, painting or soaking. Handling treated parts does not leave the hands greasy.

4804A4	650 ml aerosol
2804J1	5 l metal container
280405	60 l drum
2804U2	200 l drum

red
Salt spray: **> 100 h**
Surface: **2 m² / aerosol**

PROTOR SG 100 — 791

MEDIUM-TERM PROTECTION

Corrosion protection product leaving a strong, waxy film. Colourless version so that metals can retain their original appearance. Apply by spraying, painting or soaking. Handling treated parts does not leave the hands greasy.

2791J1	5 l Metal Jerrican
2791U2	200 l drum

colourless
Salt spray: **> 100 h**

PROTAN BLUE — C098B

MEDIUM-TERM PROTECTION

Anti-corrosion, water-repellent protective product that produces a semi-greasy film. Colored version that allows a better viewing of protected areas. The product can be applied by soaking, with a brush or as a spray. Handling of treated parts does not leave greasy hands.

C098B/060	60 l drum
C098B/0210	210 l drum

blue
Salt spray: **> 100 h**
Surface: **2 m² / aerosol**

PROTOR MARINE — 727

VERY LONG-LASTING PROTECTION

Very long-lasting protection, extreme weather and humidity conditions. Fluid that leaves a waxy thick film after drying. Indoor or outdoor protection in corrosive and marine atmosphere. Sea transport, machines in storage, metallic bar storage. Apply by spraying, painting or soaking.

2727J1	5 l jerrycan

brown
Salt spray: **> 150 h**

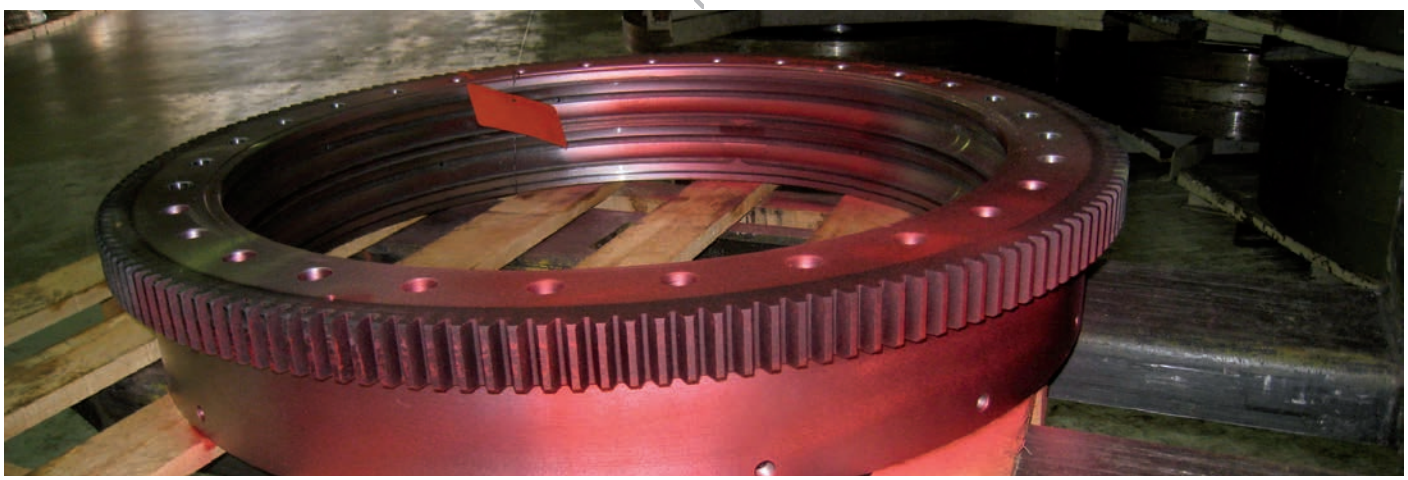
PROTOR BITUM — 7272

LONG-TERM SEALING/PROTECTION

Anti-corrosion and sealing product providing a dry and flexible film for long-lasting protection. PROTOR BITUM is primarily designed for outdoor protection purposes: bridges, roofs, pylons, metal frameworks, tanks, construction or agricultural vehicle chassis, military equipment, port materials, railway tracks etc. The product can also be used for waterproofing and protecting concrete or cement surfaces.

47272A4	650/300 ml aerosol
27272S1	5 l bucket

black
liquid
Covering power: **8 m²/litre**
Dust free/dry: **2h/12 hrs**
Salt spray: **> 800 h**



PEELABLE PRODUCTS

PROTOR AQUA 969

PEELABLE AQUEOUS PROTECTION

Water-based protective varnish.
The colour makes it easier to check treated areas. Forms a thick film which can be easily peeled off in one piece. Protects parts against scratches and corrosion, and painting booths and floors against splattering of various types. Protection of cutting tools.

□ **white**
odourless
VOC content: **0%**
Flash point: **non-flammable**

2969i2	1 kg container
2969S1	5 kg tub
296902	27 kg drum

AQUAPEEL TS 4608

PEELABLE AQUEOUS PROTECTION

Water-based, non-flammable, VOC-free protective varnish. The colour makes it easier to check treated areas. Forms a thick film which can be easily peeled off in one piece. Protects parts against scratches and corrosion, and painting booths and floors against splattering of various types.
Protection of cutting tools.

colourless
odourless
VOC content: **0%**
Flash point: **non-flammable**

D4608	25 l drum

PROTOR PL ROUGE 967

PEELABLE PROTECTION

Coloured, peelable protective varnish. The colour makes it easier to check treated areas. Dries quickly. Can be easily peeled off in one piece. Protects metal sheets, polished parts, rolling mill cylinders etc. against scratches and corrosion. Protects painting booths and floors against splattering of various types and sharp tools.

■ **red**
Salt spray: **800 h**

2967i2	1 kg container
296701	20 kg drum

PROTOR PL 968

PEELABLE PROTECTION

Colourless, peelable protective varnish. Dries quickly and can be easily peeled off in one piece. Protects against scratches and corrosion: metal sheets, polished parts, rolling mill cylinders… while keeping a perfect vision of pieces. Protection of painting booths and floors against various contaminations.

colourless

2968i2	1 kg container
2968J1	5 kg jerrycan

VARNISHES

SR 05 714

COLOURED PROTECTIVE VARNISH

Very long-lasting protective varnish, for indoor and outdoor use. Dries rapidly and creates a dry, protective film. Does not retain dust. To be applied on clean metallic or plastic parts. Protects against corrosion and scratches. To be removed easily with ORAPI 507 - NDI.

■ **red**
RAL 3032
Salt spray:
> 250 hrs

4714A4	650 ml aerosol
2714J1	5 l jerrycan

VERTRO 715

TROPICALISATION VARNISH.

Colourless, very long-lasting protective varnish for indoor/outdoor use. Can be used as a humidity insulator and is resistant to harsh environments, hydrocarbons, humidity, salt spray, scratches etc. Protects metal parts, wood, plastic, documents, printed circuit boards etc. Dries rapidly while creating a dry, protective film. Does not retain dust.

colourless
T°: **-40 to +140°C**
Dielectric constant: **100 kW**

4715A4	650 ml aerosol
2715J1	5 l jerrycan

BLOC'ROUILLE 954

STOPS RUST

Powerful rust passivator. Combines with metal to a form protective layer. strong black compound that adheres to metal. Stops rust from returning for several years; treated parts can be left out in inclement weather. Can be painted on without prior cleaning.

□ **white and**
■ **black** after drying and complexation

2954R3	500 ml bottle
2954J1	5 kg jerrycan
2954U2	200 kg drum

WELDING

ANTIPERL ECO 808

WATER-BASED ANTI-WELD SPATTER

Silicone-free and solvent-free anti-welding spatter product. Non-toxic. Water emulsion of non-stick agents, to be used for the protection of assemblies and tools in welding operations. Removed with water.

- milky white

Viscosity: **1 to 3 cPs**

Flash point: **Non-flammable**

VOC content: **0%**

4808A4	650 ml aerosol
3808J1	5 l jerrycan
3808O1	20 l drum
3808O5	60 l drum
3808U2	200 l drum

ANTIPERL ECO PMUC 808

ANTI-WELDING SPATTER, HALOGEN-FREE

Silicone-free and solvent-free anti-welding spatter product. Non-toxic. Water emulsion of non-stick agents, to be used for the protection of assemblies and tools in welding operations. Removed with water.

PMUC

- milky white

Viscosity: **1 to 3 cPs**

Flash point: **non-flammable**

VOC content: **0%**

Cl - F - S - Br: **< 200 ppm**

PMUC: **22-0082**

6808A4	650 ml aerosol
6808J1	5 l jerrycan

ANTIPERL SOUDURE 807

SOLVENT-BASED ANTI-WELDING SPATTER

Silicone-free anti-welding spatter product. Nonstick agents dispersed in a solvent, to be used for the protection of assemblies and tools in welding operations.

- Pale yellow

T°: **-30 to +280°C**

Flash point: **Non-flammable**

4807A4	650 ml aerosol
2807U2	200 kg drum

ANTIPERL WB 914

WATER-BASED ANTI FLUX RESIDUE

Silicone-free and solvent-free anti-welding spatter product. Non-toxic. Combination of non-stick agents, diluted in water, used for preventing welding spatter and projections over large areas (frames, mechanised welding, ship building etc.) Removed with water.

- colourless to light yellow

Flash point: **non-flammable**

VOC content: **0%**

2914O1	20 l drum
2914U2	200 l drum

CERASPRAY 708

NOZZLE AND TUBE PROTECTION

Ceramic-based technical product for the treatment of MIG/MAG welding tubes, torches and nozzles. Treated nozzles last 5 to 10 times longer because the gas and wire can pass through more easily. Forms a film which prevents soldering tips from bursting and over-heating. Excellent non-stick agent for high-temperature mould release.

- dry white film

T°: **1,600°C**

4708A4	650 ml aerosol

SAFETY AND MARKING

FILL CRACK 904

HOLE FILLER

Semi-synthetic compound for the filling of potholes in asphalt or tarmac. Long term repairing. To be used under any weather conditions. Keeps it flexibility and resiliency. To be applied in thin layers (4cm maximum)

■ **black**

890402	25 kg drum

ICE MELT 907

ICE AND SNOW MELTER

10 times more effective than traditional salt as it releases heat when combined with water. Anti-slip effect wherever there is ice, black ice, snow: pedestrian crossings, paths, ski resorts, shop entrances, cold storage, local authorities, companies' security department etc. Easy to use thanks to being packaged in a bucket.

□ **white**

Efficacy: **- 50°C**

Consumption: **1 kg/7-10 m²**

8907S2	14 l bucket
8907S5	25 kg bag
8907BB	1 t Big Bag

FLOOR PATCH II 9032

HOLE AND CRACK REPAIR

Synthetic compound for filling holes and cracks in cement, concrete and bitumen. Chemical sealing of threaded rods, poles, machine feet, manholes etc. Fluid, slow-setting self-levelling product particularly suitable for difficult and horizontal work. Long-term repair. To be used under any weather conditions.

■ **Dark grey**

Shelf life of mixture: **15 mins**

Drying time: **2 h**

Density: **2**

Consumption: **2 kg/m²/mm**

89032K5	5 kg tub

TUE FRELONS 591

POWERFUL INSECTICIDE

Formulated with powerful active compounds, immediate devastating action. To be used only outside, for wasp and hornet nests and all human threatening species. No unpleasant smell. Spray the product while protecting yourself against counter-attacks. For firemen, technical departments, sports clubs, camp sites, leisure centres, farmers, nurseries etc.

Range: **6 m**

Empty in **20 seconds**

4591A6	Aerosol 1000 ml

SOLSEC 916

PLANT-BASED ABSORBENT PRODUCT

Multi-purpose, plant-based absorbent product with very good absorbency properties. Very good anti slip. Not abrasive and chemically neutral. Flame retardant (M1 rating) + 600°C. Does not create sludge or dust. Absorbs all liquids on floors: soiled water, petrol, blood, diesel etc. Required for all industries, firemen, local authorities. Pollution treatment in public areas and within companies.

pH: **6,5**

Absorbency properties: **669% water 484% hydrocarbon**

5916H4	45 l bag (approx. 6,5 kg. 70 bags / pallet)

ABSORBANT TDD 935

DIATOMACEOUS EARTH

Inert road and industrial absorbent product, free from harmful materials. Absorbs quickly and efficiently thereby avoiding pollution and slides. Does not form sludge after liquid absorption.

■ **reddish brown**

Density: **505 kg/m³**

Pallet: **50 bags**

Absorbency properties: **137% water 154% hydrocarbon**

8935H4	20 kg bag (approx. 40 l)

ABSORBANT PP 7000XX

ABSORBENT WIPES

Absorb liquid spills quickly, easily, cleanly and at optimum cost. Easy to deploy and easy to pick up. Absorbs 10 to 15 times its own weight. An essential tool for preventing pollution and keeping workshops clean. For preventive as well as curative use.

Ref.	Product	Composition
700070	40 x 45 HYDROCARBON wipes	Bag of 200 white sheets
700071	40 x 45 ALL FLUIDS wipes	Bag of 200 grey sheets
700075	8 x 120 Booms	Box of 20 grey booms
700076	Emergency Kit	1 boom + 20 all fluids wipes (30 x 30) + cloth + gloves + bin bag

FLAW DETECTION

LEAK DETECTOR 952

GAS LEAKS

Suitable for the detection of gas leaks: compressed air, oxygen, butane, propane, CO2 etc. on connectors or valves. Instantly detects leaks by foaming. The aerosol has an adjustable nozzle. Contains a corrosion inhibitor which prevents subsequent metal oxidation.

Cl - F - Br - S: **< 200 ppm**
PMUC: **07-010**

4952A4	650 ml aerosol
6958A4	650 ml aerosol PMUC
2952J1	5 kg jerrycan
295205	60 kg drum

BLEU DE PRUSSE 975

PLANARITY DEFECT

Blue indicator for checking connectors and fittings on flat surfaces. Reveals high and low points on abutment surfaces which can then be machined to make the final adjustments. Cleans off with ORASOLV B30 - 564.

blue
VOC content: **0%**
Non-flammable

1975F9	22 ml tube
1975T3	100 ml tube

CRACK DETECTOR 957

CRACKS, FISSURES – PENETRATING RED DYE

Highly effective red fluid which penetrates the cracks, micro-fissures and pores of metals, whether blocked or not. For testing welds during construction and monitoring wear after several years' use on tanks, pylons (ski resorts, cable cars), machine frames, cars, etc. Clean with 503, apply 957, allow the product to penetrate, wipe off, then apply 956. Flaws appear in red when white indicator 956 is applied. ASME Section V compliant.

red
Capacity: **200 m**

4957A4	650 ml aerosol
2957J1	5 l jerrycan

CRACK DETECTOR 956

CRACKS, FISSURES - WHITE INDICATOR

White product which, when applied after the 957 product onto cracks, micro-fissures and porous metal, blocked or otherwise, makes the 957 product which has penetrated into the material reappear, thereby identifying any flaws. For testing welds during construction and monitoring wear after several years' use on tanks, pylons (ski resorts, cable cars), machine frames, automobiles etc. Clean with 503, apply 957, let it penetrate, sweep away, apply 956. Flaws appear in red when white indicator 956 is applied. ASME Section V compliant.

white
Capacity: **150 m**

4956A4	650 ml aerosol

KLEANER 503

CRACKS, FISSURES - DRY SOLVENT

Helps prepare surfaces before detecting cracks and fissures using the 2 products from the CRACK DETECTOR range. Degreasing solvent with ultra quick evaporation that removes efficiently dust and greasy marks that could interfere with the action of detection products. Does not damage plastic, rubber, polymers etc.

Scent: **apple**
Flash point: **< 0°C**

4503A4	650 ml aerosol

ADHESIVE APPLICATION

SPRAY GUN
310 ml CANISTER

Ref.: 700002

SPRAY GUN
50 ml SYRINGE

Ref.: 700000

APPLICATION NOZZLE
0.8mm ADHESIVE

Ref.: 500006

SYRINGE MIXER
50 ML

1. Cannulas: 700001
2. Cannulas: 700083 (for 201 & 391)
3. Cannulas: 700093 (for 129)

GREASE APPLICATION

GREASE PUMP

Ref.: 700012

LUBE SHUTTLE SPRAY GUN

Ref.: 700062
Ref.: 700081 (pneumatic version)

AEROSOL

NOZZLE BRUSH

Ref.: 700068

GRASSHOPPER HEAD NOZZLE

Ref.: 52380

LIQUID APPLICATION

AÉROVAP

Ref.: 700063

RECHARGEABLE AEROSOL

Ref.: 700087

Recharge valve:
Ref. 50002

Recharge valve:
Ref. 50007

LINE MARKING

2-WHEEL LEVER

Ref.: 8915V1

4-WHEEL TROLLEY

Ref.: 8915V3

SOLUBLE OIL CONTROL

REFRACTOMETER

Ref.: 700014

SOAP DISPENSER

POWDERED SOAP DISPENSER

Ref.: ACC007
Ref.: 700074 (Shovel)

TAPS

TAP FOR 20 LITRES

Ref.: 700021

TAP FOR 60 AND 200 LITRES

Ref.: 5172

EMPTY PACKAGING

50316 / 50317	20 ml GLASS BOTTLE
700010	20 g ADHESIVE BOTTLE
700011	90/50 ml RESIN BOTTLE
700003	100 ml MECHANICAL PUMP SPRAY
7BIDOP1/2	500 ml BOTTLE + SPRAY

ACC440	Gachette pulvé for epl 855
EPL855	1 l HDPE CONTAINER GIRAFFE NECK
700006	1 l HDPE Jerrycan + cap
53936	5 l CONTAINER
51165	SPRAY TRIGGER

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