

# WINKEL®

**ENGINEERING  
ADHESIVES**

**MAINTENANCE  
REPAIR  
PRODUCTS**




[www.winkelgroup.de](http://www.winkelgroup.de)





# MARINE INDUSTRY



A photograph of a complex industrial facility, likely a refinery or chemical plant. The scene is dominated by several tall, vertical distillation columns and a dense network of pipes, valves, and metal walkways. The equipment is painted in shades of grey and white, with yellow safety railings. The background shows a clear sky with some light clouds. The overall impression is one of a large-scale, intricate industrial system.

**AN  
INDISPENSABLE  
PART OF THE  
SYSTEM**



*WINKEL GmbH has been producing industrial grade products such as "engineering adhesives, repair epoxies and aerosol products for maintenance" at European standards for the MRO and OEM sectors. In addition, it supports the leading companies globally with "Private Label" production.*

*Winkel GmbH is one of the leading solution provider company to maintenance problems in different areas of the industry with the slogan "Indispensable Part of the System". We support our end-users in domestic and global markets with our broad distributor network.*

*This brochure is only for reference. We also support companies with tailor-made trainings (theoretical / in-situ applications). Please contact with us for your demands.*

*Our mission;*

*"To minimize unplanned downtime in your facilities / To provide sustainable maintenance skills to your employees / To decrease your maintenance cost.*

**Winkel GmbH  
Neuss - Germany**



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Please visit our website [www.winkelgroup.de](http://www.winkelgroup.de) to see our product portfolio.  
Please contact our authorized sales engineer or technical department  
([info@winkelgroup.de](mailto:info@winkelgroup.de)) for furthermore technical requests.



	2W22	2W43	2W70	2W72	2W77	2W90
<b>Color</b>	Purple	Blue	Green	Red	Red	Green
<b>Strength</b>	Low	Medium	High	High	High	High
<b>Viscosity (25°C)</b>	1000-2000 mPa-s	2500-4000 mPa-s	400-600 mPa-s	5000-10000 mPa-s	6000-8000 mPa-s	7-12 mPa-s
<b>Fixture Time</b>	5-15 min.	5-15 min.	< 15 min.	< 15 min.	< 15 min.	< 15 min.
<b>Functional Strength</b>	3-6 hr.	1 hr.	1 hr.	1-3 hr.	1 hr.	1 hr.
<b>Full Cure</b>	12-24 hr.	12-24 hr.	12-24 hr.	12-24 hr.	12-24 hr.	12-24 hr.
<b>Recommended Ø Thread Size</b>	M36	M36	M20	M36	M36	M36
<b>Gap Filling</b>	max. 0,25 mm	max. 0,30 mm	max. 0,20mm	max. 0,30mm	max. 0,20mm	max. 0,15mm
<b>Breakaway Strength</b>	5-11 Nm	12-25 Nm	21-44 Nm	20-37 Nm	25-40 Nm	25-44 Nm
<b>Temperature Resistance</b>	-50°C to +150°C	-50°C to +150°C	-50°C to +150°C	-50°C to +230°C	-50°C to +150°C	-50°C to +150°C

Properties	2W22	2W43	2W70	2W72	2W77	2W90
<p>It is a low-strength anaerobic threadlocking product for fixing and sealing bolt connections. It can be removed when it is required. Resistant to vibration, oil and temperature up to 150°C. Easy disassembly with standard hand tools.</p> <p>Art. No. : 20300 , 50ml IMPA CODE: 812751</p> <p>Art. No. : 20301 , 250ml IMPA CODE: 812781</p>	<p>It is a medium-strength anaerobic threadlocking product for fixing and sealing bolt connections. It can be removed when it is required. Resistant to vibration, oil and temperature up to 150°C. Disassembly with standard hand tools.</p> <p>Art. No. : 20318 , 10ml</p> <p>Art. No. : 20303 , 50ml IMPA CODE: 812745</p> <p>Art. No. : 20304 , 250ml IMPA CODE: 812782</p>	<p>It is a high-strength anaerobic threadlocking product for fixing and sealing bolt connections. It is not removable at room temperature. Resistant to vibration, oil and temperature up to 150°C.</p> <p>Art. No. : 20319 , 10ml</p> <p>Art. No. : 20320 , 50ml IMPA CODE: 812746</p> <p>Art. No. : 20321 , 250ml</p>	<p>It is a high-strength anaerobic threadlocking product for fixing and sealing bolt connections. It is not removable at room temperature. Resistant to vibration, oil and temperature up to 230°C.</p> <p>Art. No. : 20309 , 50ml</p> <p>Art. No. : 20310 , 250ml</p>	<p>It is a high-strength anaerobic threadlocking product for fixing and sealing bolt connections. It is not removable at room temperature. Resistant to vibration, oil and temperature up to 150°C.</p> <p>Art. No. : 20312 , 50ml IMPA CODE: 812755</p> <p>Art. No. : 20313 , 250ml IMPA CODE: 812785</p>	<p>It is a high-strength anaerobic threadlocking product applied externally after the bolt connections are closed. It is wicking grade product. It is not removable at room temperature. Resistant to vibration, oil and temperature up to 150°C.</p> <p>Art. No. : 20315 , 50ml IMPA CODE: 812756</p> <p>Art. No. : 20316 , 250ml IMPA CODE: 812786</p>	

# ANAEROBIC THREADSEALING



	5W11	5W77	5W65	5W42	5W72
<b>Color</b>	White	Yellow	White	Brown	White
<b>Strength</b>	Low	Medium	Low	Medium	Low
<b>Viscosity (25°C)</b>	15000-30000 mPa-s	35000-60000 mPa-s	Appr. 300.000 mPa-s	400-600 mPa-s	15.000-30.000 mPa-s
<b>Fixture Time</b>	< 120 min.	< 15 min.	< 120 min.	15 min.	< 15 min.
<b>Functional Strength</b>	1-3 hr.	1 hr.	6 hr.	1 hr.	1 - 3 hr.
<b>Full Cure</b>	12-24 hr.	24 hr.	24 hr.	24 hr.	24 hr.
<b>Recommended Ø Thread Size</b>	M80	M80	-	M26	M80
<b>Gap Filling</b>	max. 0,50 mm	max. 0,25 mm	max. 0,50mm	max. 0,20mm	max. 0,25 mm
<b>Breakaway Strength</b>	5-15 Nm	8-20 Nm	2-8 Nm	8-18 Nm	5-15 Nm
<b>Temperature Resistance</b>	-50°C to +150°C	-50°C to +150°C	-50°C to +150°C	-50°C to +150°C	-50°C to +150°C

## Properties

It is a low-strength, anaerobic thread sealing product developed for parallel & bevel gears and their combinations. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20400 , 50ml  
Art. No. : 20401 , 250ml

It is a medium strength, thixotropic anaerobic thread sealing product developed for parallel & bevel gears and their combinations. It resists shock and vibration and provides sealing against water, compressed air, gas, gasoline, LPG and industrial chemical products. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20403 , 50ml  
IMPA CODE: 812749

Art. No. : 20404 , 250ml  
IMPA CODE: 812795

It is a low-strength, thixotropic anaerobic thread sealing product developed for parallel & bevel gears and their combinations. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20512 , 50ml  
Art. No. : 20513 , 250ml

It is a medium strength anaerobic sealing product developed for threaded connections in hydraulic & pneumatic systems. It is not fluorescent. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20409 , 50ml  
IMPA CODE: 812748

Art. No. : 20410 , 250ml

It is a low-strength, thixotropic anaerobic thread sealing product developed for parallel & bevel gears and their combinations. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20406 , 50ml  
IMPA CODE: 812762

Art. No. : 20407 , 250ml  
IMPA CODE: 812794



	6W20	6W38	6W41	6W48	6W01
Color	Green	Green	Yellow	Green	Green
Strength	High	High	Medium	High	High
Viscosity (25°C)	10000-30000 mPa-s	1800-3300 mPa-s	400-600 mPa-s	400-800 mPa-s	100-150 mPa-s
Fixture Time	< 15 min.	< 15 min.	< 15 min.	< 10 min.	< 15 min.
Functional Strength	3 hr.	45 min.	1 hr.	45 min.	60 min.
Full Cure	24 hr.	24 hr.	24 hr.	24 hr.	24 hr.
Recommended Ø Thread Size	M50	M36	M36	M20	M26
Gap Filling	max. 0,40 mm	max. 0,25 mm	max. 0,20mm	max. 0,20mm	max. 0,20mm
Breakaway Strength	25-42 Nm	25-42 Nm	12-18 Nm	20-40 Nm	25-41 Nm
Temperature Resistance	-50°C ile +230°C	-50°C ile +150°C	-50°C ile +150°C	-50°C ile +150°C	-50°C ile +150°C

## Properties

It is a high-strength, anaerobic retaining product developed for all kinds of cylindrical connections exposed to static and dynamic loads. It is not removable at room temperature. Resistant to vibration, oil and temperature up to 230°C.

Art. No. : 20600, 50ml  
 IMPA CODE: 812826  
 Art. No. : 20601, 250ml  
 IMPA CODE: 812827

It is a high-strength, anaerobic retaining product developed for all kinds of cylindrical connections exposed to static and dynamic loads. It is not removable at room temperature. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20603, 50ml  
 IMPA CODE: 812828

Art. No. : 20604, 250ml  
 IMPA CODE: 812829

It is a medium-strength, anaerobic retaining product developed for all kinds of cylindrical connections exposed to static and dynamic loads. It is removable when it is required. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20606, 50ml  
 IMPA CODE: 815226

Art. No. : 20607, 250ml  
 IMPA CODE: 815227

It is a high-strength, chemical resistant anaerobic retaining product developed for all kinds of cylindrical connections exposed to static and dynamic loads. It is not removable at room temperature. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20609, 50ml  
 IMPA CODE: 812750

Art. No. : 20610, 250ml  
 IMPA CODE: 812798

It is a high-strength, anaerobic retaining product developed for all kinds of cylindrical connections exposed to static and dynamic loads. It is not removable at room temperature. Ideal for cylindrical mountings on the shaft. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20618, 50ml  
 Art. No. : 20619, 250ml



# ANAEROBIC GASKET & SEALING



	5W74	5W18	5W10
Color	Orange	Red	Pink
Strength	Medium - Low	Medium	Medium - High
Viscosity (25°C)	50000-150000 mPa·s	300000-700000 mPa·s	250000-600000 mPa·s
Fixture Time	20 min.	< 35 min.	< 20 min.
Functional Strength	3 - 6 hr.	3-6 min.	3-6 hr.
Full Cure	24 hr.	24 hr.	24 hr.
Recommended Ø Thread Size	M80	M80	M56
Gap Filling	max. 0,35 mm	max. 0,50 mm	max. 0,50mm
Temperature Resistance	-50°C to +150°C	-50°C to +150°C	-50°C to +200°C

## Properties

It is a medium strength, thixotropic anaerobic sealing product developed for flange sealing. Widely used for sealing flanges and pump housings against water, compressed air, gas, LPG and gasoline; it can be used on all types of rigid flanges. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20500, 50ml  
 IMPA CODE: 812835

Art. No. : 20501, 250ml  
 IMPA CODE: 812836

It is a medium strength, thixotropic anaerobic sealing product developed for flange sealing. Widely used for sealing flanges and pump housings against water, compressed air, gas, LPG and gasoline; it can be used on all types of rigid flanges. Compatible with all metals, specifically designed for aluminum. Resistant to vibration, oil and temperature up to 150°C.

Art. No. : 20503, 50ml  
 IMPA CODE: 812814

Art. No. : 20505, 250ml

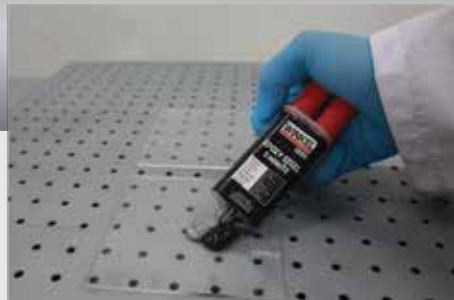
Art. No. : 20504, 300ml  
 IMPA CODE: 812819

It is a medium-high strength, anaerobic sealing product developed for flange sealing. It can be used instead of cut gaskets on all types of rigid flange connections such as transmission box, pumps etc. It resists to impact and vibration and provides sealing against water, gas, gasoline, oil, LPG and chemicals. Resistant to vibration, oil and temperature up to 200°C.

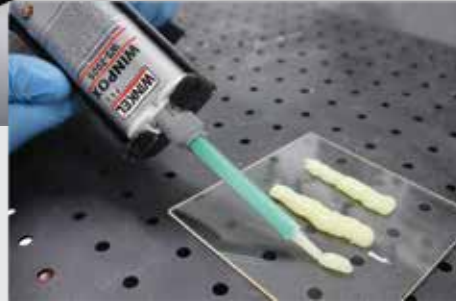
Art. No. : 20506, 50ml  
 IMPA CODE: 812760

Art. No. : 20507, 250ml  
 IMPA CODE: 812761

# EMERGENCY REPAIR EPOXY ADHESIVES



	5 MINUTE CLEAR EPOXY	5 MINUTE STEEL EPOXY	PIPE REPAIR KIT	KNEAD STEEL EPOXY STICK	KNEAD WATER EPOXY STICK
<b>Characteristic</b>	Epoxy	Epoxy	Epoxy Stick Resin Band	Epoxy	Epoxy
<b>Color</b>	Clear	Grey	Epoxy Putty: Black Tape: Yellow	Grey	White
<b>Mixture Ratio (by volume)</b>	1:1	1:1	-	1:1	1:1
<b>Open Time</b>	5-7 min. (24 ml)	5-7 min. (24 ml)	3-5 min.	3-6 min.	3-6 min.
<b>Fixture Time Full Cure</b>	5 min. 12 hr.	5 min. 12 hr.	%50 7-10 min. 30 min.	%50 20 min. Full Cure: 24 hr.	%50 20 min. Full Cure: 24 hr.
<b>Mixture Viscosity</b>	7000 - 10000 cps	10.000 cps	-	Putty	Putty
<b>Shore D Hardness ASTM D 2240</b>	82	83	70	75-85	75-83
<b>Tensile Strength</b>	100 - 133 kg/cm <sup>2</sup>	133 kg/cm <sup>2</sup>	355 kg/cm <sup>2</sup>	124 - 155 kg/cm <sup>2</sup>	124 - 155 kg/cm <sup>2</sup>
<b>Temperature Resistance</b>	-5°C to +95°C	-29°C to +150°C	150°C	-29°C to +121°C (260°C momentary)	-29° to +121°C (149°C momentary)
<b>Properties</b>	<p>It is a fast-curing epoxy adhesive developed for emergency repairs. Fixture time is 5 minutes and it reaches functional strength within 1 hour. It does not contain fillers and solvents. It can be used on a wide variety of materials such as wood, ceramics, metals, fiberglass, glass, porcelain and concrete.</p> <p>Art. No. : 20065, 24 ml                      IMPA CODE: 812151                      Art. No. : 20067, 2 x 250 g                      IMPA CODE: 812247</p>	<p>It is a fast-curing steel filled epoxy adhesive developed for emergency repairs. Fixture time is 5 minutes and it reaches functional strength within 1 hour. It has superior adhesion and chemical resistance. It can be used on a wide variety of materials such as wood, ceramics, metals, fiberglass, glass, porcelain and concrete.</p> <p>Art. No. : 20064, 24 ml                      IMPA CODE: 812981</p>	<p>Winkel Pipe Repair Tape is a resin-impregnated, glass fiber reinforced tape. The kit also includes Winkel Pro Knead Steel epoxy putty. Designed for rapid repair of cracks and leaks. It is easy to use. Repaired areas are ready for use in less than 30 minutes.</p> <p>Art. No. : 20066-515, 5 cm x 1,5 m                      IMPA CODE: 812364                      Art. No. : 20066-535, 5 cm x 3,5 m                      IMPA CODE: 812362                      Art. No. : 20066-135, 10 cm x 3,5 m                      IMPA CODE: 812363                      Art. No. : 20066-725, 75 cm x 2,5 m                      IMPA CODE: 812365</p>	<p>It is an epoxy putty that is activated by hand kneading. It cures in 3-6 minutes and can be used functionally within 20 minutes. It can be machined after full curing. Temperature resistance is 121°C continuously and 260°C for short periods.</p> <p>Art. No. : 20051, 114 g                      IMPA CODE: 812191                      Art. No. : 20068, 57 g</p>	<p>It is an epoxy putty that is activated by hand kneading. It cures in 3-6 minutes and can be used functionally within 20 minutes. It is suitable to use on wet and damp surfaces and can be machined after full curing. Temperature resistance is 121°C continuously and 149°C for short periods.</p> <p>Art. No. : 20050, 114 g                      IMPA CODE: 812193                      Art. No. : 20069, 57 g</p>



	WINPOX 2005	WINPOX 2015	POLYPLAST
Characteristic	Methyl Metacrylate	Methyl Metacrylate	PE, PP Adhesive
Color	Amber	Amber	Cream White
Mixture Ratio (by volume)	1:1	1:1	10:1
Open Time	5-8 min.	14-19 min.	2,5-3 min.
Fixture Time Full Cure	10-12 min. 1 hr.	20-25 min. 1 hr.	90-250 min. 8-24 hr.
Mixture Viscosity	120.000 - 200.000 mPa·s	120.000 - 200.000 mPa·s	PP- 7,5 N / mm <sup>2</sup> PE - 7,0 N / mm <sup>2</sup>
Tensile Strength	35 - 40	35 - 40	55
Temperature Resistance	-40°C to +100°C (Can reach 121°C if applied over 5mm).	-40°C to +100°C (Can reach 121°C if applied over 5mm).	-55°C to +80°C

## Properties

It is a two-component, yellow color methylmethacrylate-based structural adhesive.

- High strength.
- Resistant to weather conditions.
- Easy to use.
- Provides high strength even on surfaces without preliminary surface preparation.
- Resistant to gasoline and kerosene.
- RoHS compliant.

Art. No. : W200 007, 50 ml  
Art. No. : W200 008, 400 ml

It is a two-component, yellow color methylmethacrylate-based structural adhesive.

- High strength.
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- Resistant to gasoline and kerosene.
- RoHS compliant.

Art. No. : W200 010, 50 ml  
Art. No. : W200 011, 400 ml

Polyplast is a special impact-resistant, two-component structural adhesive. It does not contain solvent. It is used to bond hard-to-bond surfaces to metals and each other (low surface energy plastics such as polypropylene (PP), polyethylene (PE), PTFE, teflon, etc.). Polyplast is hybrid acrylic formulation based and has excellent resistance to moisture and chemicals.

Art. No. : W20063, 50 ml



	4W54	4W06	BLACK 4W80	4W15	4W60	4W01
<b>Color</b>	Colorless	Colorless	Black	Colorless	Colorless	Colorless
<b>Fixture Time (NBR Rubber)</b>	< 7 sec.	<5	10 - 15 sec.	5-20 sec.	10-15 sec.	1- 3 sec.
<b>Viscosity (cPs)</b>	50000 - 90000 Thixotropic-Gel	34 - 44 mPa-s	300 - 1,000 mPa-s	1500 mPa-s	80 - 120 mPa-s	80 - 130 mPa-s
<b>Fixture Time (Stainless Steel)</b>	15-35 sec.	<20	30-40 sec.	15-60 sec.	50-60 sec.	15 - 30 sec.
<b>Density</b>	1,10 g/ml (DIN 53217)	1,06 g/ml (DIN 53217)	1,10 g/ml (DIN 53217)	1,08 g/ml (DIN 53217)	1,06 g/ml	1,04 - 1,06 g/ml
<b>Tensile Strength (N/mm<sup>2</sup>)</b>	21	20	21	20	18	15 - 25
<b>Shear Strength</b>	21 N/mm <sup>2</sup>	20 N/m <sup>2</sup>	> 20 N/m <sup>2</sup>	15-25 N/m <sup>2</sup>	11-20 N/m <sup>2</sup>	15-25 N/m <sup>2</sup>
<b>Gap Filling</b>	0.02" / 0.5mm	0.004" / 0.10mm	0.008" / 0.20mm	0.006" / 0.15mm	0.006" / 0.15mm	0.006" / 0.15mm
<b>Application Temperature</b>	optimum +23°C	optimum +23°C	optimum +23°C	optimum +23°C	optimum +23°C	optimum +23°C

### Properties

It is a cyanoacrylate based instant adhesive in gel form developed for vertical surfaces and porous materials. It provides ease of use in overhead applications and on vertical surfaces. It is suitable for general purpose and bonding on vertical surfaces, it does not flow on vertical surfaces.

Art. No. : 20200, 20 g  
IMPA CODE: 812789

It is a cyanoacrylate based instant adhesive specially developed for bonding highly flexible materials such as plastic-rubber. They are available in different viscosities depending on application requirement.

Art. No. : 20110, 20 g  
IMPA CODE: 812817

It is a black colored, cyanoacrylate based instant adhesive with high moisture resistance. It has flexible structure, resistant to shock, moisture, impact and peeling. It is used for bonding model assemblies, interior equipment of vehicles, various plastics and flexible EPDM parts such as bellows.

Art. No. : 20115, 20 g  
IMPA CODE: 812818

It is a cyanoacrylate based instant adhesive developed for bonding metal - metal and metal-rubber combinations.

Art. No. : 20205, 20 g  
Art. No. : 20206, 50 g

It is a cyanoacrylate based instant adhesive specially developed for applications where aesthetic bonding is important. Its special formulation allows safe use. It does not leave any stains and is odorless.

Art. No. : 20100, 20 g  
Art. No. : 20101, 500 g

It is a cyanoacrylate based instant adhesive developed for special purpose applications. It is used in applications where traditional adhesives do not provide optimum results, such as leather, cardboard, cork, wood, plastic, elastomers, metal and absorbent materials. It can be used for Apron bonding in the textile industry.

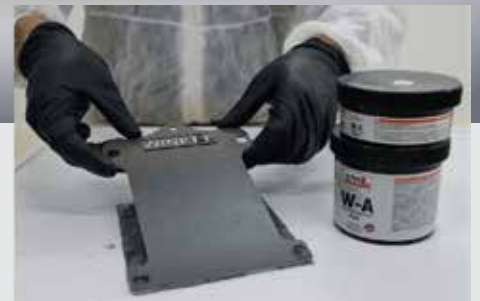
Art. No. : 20108, 20 g  
Art. No. : 20109, 500 g

# METAL FILLED EPOXY ADHESIVES

**NEW**



\*Each kit includes spatula and gloves.



	W-A Steel Putty	W-B Steel Liquid	W-SF Steel Putty	W-F Aluminum Putty	W-ST Stainless Steel Putty	W-WR Wear-Resistant	W-UW Underwater Repair Putty
<b>Characteristic</b>	Putty	Liquid	Putty	Putty	Putty	Putty	Putty
<b>Color</b>	Grey	Steel Grey	Dark Grey	Silver Grey	Dark Grey	Aluminum Grey	Grey
<b>Open Time *Room Temperature</b>	45 min.	25-30 min.	2-3 min.	25-30 min.	25-30 min.	25-30 min.	35-40 min.
<b>Mixing Ratio By Weight/Volume</b>	100:11 3:1	94:6 5.6:1	1.2:1 1:1	93:7 6.7:1	93:7 6.7:1	93:7 7:1	1:1 1:1
<b>Shore D Hardness ASTM D2240-15</b>	88	87	88	87	87	89	81
<b>Shear Strength *ASTM D1002-10</b>	1322 psi	1113 psi	1322 psi	1200 psi	1207 psi	863 psi	1845 psi
<b>Compressive Strength *ASTM D695-15</b>	16251 psi	16415 psi	16251 psi	15485 psi	16075 psi	16732 psi	8273 psi
<b>Tensile Strength *ASTM D638-14</b>	6900 psi	7290 psi	6900 psi	4120 psi	5020 psi	5670 psi	2960 psi
<b>Operation Temperature</b>	-30 to +150°C continually +200°C short-term	-30 to +150°C continually +200°C short-term	-30 to +150°C continually +200°C short-term	-30 to +150°C continually +200°C short-term	-30 to +150°C continually +200°C short-term	-30 to +150°C continually +200°C short-term	-30 to +150°C continually +200°C short-term

## Properties

Steel repair epoxy putty cures at room temperature. It is designed for filling, repairing and bonding metal surfaces. It can also be used to effectively repair equipment that needs to be returned to service. It is suitable for all machining operations after full cure.

Art. No. : 20010, 500 g  
IMPA CODE: 812251

Steel repair epoxy liquid cures at room temperature. It is designed for repair, filling and bonding of steel or metal surfaces in horizontal position. It can be used in modeling and mold industries with self levelling property. It is suitable for all machining operations after full cure.

Art. No. : 20053, 500 g  
IMPA CODE: 812256

Steel filled fast epoxy putty cures in approximately 5 minutes at room temperature. It is designed for filling, repairing and bonding metal surfaces. It can also be used to effectively repair equipment that needs to be returned to service. It is suitable for all machining operations after full cure.

Art. No. : 20058, 500 g  
IMPA CODE: 812262

Aluminum repair epoxy putty cures at room temperature. It is designed for filling, repairing and bonding aluminum or metal surfaces. It can also be used to effectively repair equipment that needs to be returned to service. It is suitable for all machining operations after full cure.

Art. No. : 20055, 500 g  
IMPA CODE: 812266

Stainless steel epoxy repair putty cures at room temperature. It is designed for filling, repairing, maintenance and bonding of stainless steel or metal surfaces. It can also be used to effectively repair equipment that needs to be returned to service. It is suitable for all machining operations after full cure.

Art. No. : 20057, 500 g  
IMPA CODE: 812292

Wear-resistant epoxy putty cures at room temperature. It is designed for the repair and protection of surfaces subjected to friction wear.

Art. No. : 20054, 500 g  
IMPA CODE: 812286

Underwater repair epoxy putty cures on dry, wet and submerged surfaces. It is designed for filling, repairing and bonding metal, concrete and wooden surfaces in wet and dry environments. It can also be used to effectively repair equipment that needs to be returned to service.

Art. No. : 20056, 500 g  
IMPA CODE: 812246



	ADHESIVE SEALING	POLYURETHANE ADHESIVE SAUSAGE	GASKET SILICONE	AUTOMATIC CARTRIDGE SEAL	HT GASKET SILICONE SEAL (GASKET PLUS OXIME)	GASKET PLUS (OXIME)
Characteristic	Polyurethane	Polyurethane	Acetoxy Silicone	Acetoxy Silicone	Oxime Silicone	Oxime Silicone
Color	White - Grey - Black	White - Grey - Black	Black	Transparent - Grey Black - Red	Grey - Black	Black
Tack Free Time	40±10 min.	40±10 min.	8 min.	8 min.	~ 8 min.	~ 8 min.
Curing Speed	3 mm 24 hr.	3 mm 24 hr.	2 mm 24 hr.	2 mm 24 hr.	2 mm 24 hr.	2 mm 24 hr.
Shore A Hardness	35 - 40	50 ± 5	30	30	40	40
Elongation at Break	min. %350	> % 300	-	-	% 300	% 300
Temperature Resistance	-40°C to +90°C	-40°C to +90°C	-65°C to +250°C	-65°C to +260°C (Short-term 300°C)	-65°C to +250°C (Short-term 300°C)	-65°C to +250°C (Short-term 300°C)

Properties	ADHESIVE SEALING	POLYURETHANE ADHESIVE SAUSAGE	GASKET SILICONE	AUTOMATIC CARTRIDGE SEAL	HT GASKET SILICONE SEAL (GASKET PLUS OXIME)	GASKET PLUS (OXIME)
<p>It is a single-component, high-modulus polyurethane-based strong adhesive and filling material that cures with air humidity. Provides sealing against water, air, gas and dust. It can adhere to materials such as glass, porcelain, aluminum, iron, steel, lead, copper, wood, concrete and plastic without primer.</p> <p>Art. No. : W160 261-B, 300ml Art. No. : W160 261-G, 300ml Art. No. : W160 261-S, 300ml</p>	<p>It is a single-component, high-modulus polyurethane-based strong adhesive and filling material that cures with air humidity. It can adhere to materials such as glass, porcelain, aluminum, iron, steel, lead, copper, wood, concrete and plastic without primer. It can be used for body sealing, ship constructions and ventilation duct sealing in automobiles, containers and caravans.</p> <p>Art. No. : W160 259-B, 600ml Art. No. : W160 259-G, 600ml Art. No. : W160 259-S, 600ml</p>	<p>It is a single-component, elastic, acetoxy-based silicone liquid gasket. It adheres strongly to the materials on which it is applied, creating a high quality and permanent elastic seal. Resistant to weather conditions, UV rays, hot water, oil, grease, etc. It is impact resistant. It has temperature resistance between -65°C - +260°C (short-term +300°C)</p> <p>Art. No. : W200 502, 70ml IMPA CODE: 812841</p>	<p>It is a single-component, elastic, acetoxy-based silicone liquid gasket. It adheres strongly to the materials on which it is applied, creating a high quality and permanent elastic seal. Resistant to variable weather conditions, UV rays, hot water, oil, grease, etc. It is resistant to impact. It has temperature resistance between -65°C and +260°C (short-term +300°C). Special cartridge structure allows application without an applicator gun.</p> <p>Art. No. : W200 503, 200 ml, Transparent Art. No. : W200 504, 200 ml, Black Art. No. : W200 505, 200 ml, Grey Art. No. : W200 506, 200 ml, Red</p>	<p>It is an oxime silicone-based liquid gasket with high oil tolerance &amp; high temperature resistance and gap filling properties in flexible flange connections. It can be used for sealing many areas such as engine block, transmission, differential, oil pan, intake manifold. Special cartridge design allows application without an applicator gun.</p> <p>Art. No. : W200 504-0, 200 ml, Black IMPA CODE: 812842 Art. No. : W200 505-0, 200 ml, Grey IMPA CODE: 812842 Art. No. : W200 502-0, 70ml, Black IMPA CODE: 812841</p>	<p>It is an oxime-based, high temperature resistant bonding and sealing silicone. It adheres strongly to the materials on which it is applied, creating a high quality, permanent elastic seal. It has excellent resistance to gasoline/diesel fuels, oils, grease, water and sea water, UV rays and ozone. Ideal for use in engine block sealing, crankcase connections and all flexible flanges.</p> <p>Art. No. : W160 255, 310ml IMPA CODE: 812843</p>	



	RTV HIGH TEMPERATURE SILICONE	TRANSPARENT CRYSTAL ADHESIVE	UNIVERSAL SILICONE	MS POLYMER	HYLOMAR
Characteristic	Acetoxy Silicone	MS Polymer	Acetoxy Silicone	MS Polymer	Polyester Resin
Color	Red	Transparent	Transparent - White	Transparent - White Black	Blue
Tack Free Time	20 - 30 min.	35 min.	-	20 min.	-
Curing Speed	3 mm 24 hr.	2 - 3 mm 24 hr.	2 mm 24 hr.	3 mm 24 hr.	-
Shore A Hardness	22	35 ± 5	-	60	-
Elongation at Break	% 500	%300	-	% 500	-
Temperature Resistance	-50°C to +255°C (Short-term 285°C)	-40°C to +90°C	-45°C to +150°C	-40°C to +100°C	-50°C to +250°C

Properties	RTV HIGH TEMPERATURE SILICONE	TRANSPARENT CRYSTAL ADHESIVE	UNIVERSAL SILICONE	MS POLYMER	HYLOMAR
Properties	<p>It is a single-component, moisture-curing, high-temperature resistant, acetoxy-based adhesive and sealing silicone. It is 100% silicone polymer. High strength formula. Resistant to ozone and UV rays. High temperature resistance up to 255°C (short-term 285°C).</p> <p>Art. No. : W160 254, 280ml                      IMPA CODE: 815283</p>	<p>It is a modified silane-based, single-component, moisture-curing adhesive and sealing material. It does not contain solvents and isocyanates. It has excellent resistance to weather conditions. Resistant to UV rays.</p> <p>Art. No. : W160 266, 310ml</p>	<p>It is a general purpose and single component acetoxy silicone based sealing and filling material. It has wide application areas; the joints of building elements, in door and window gaps, for filling and insulation purposes, in glass installation and assembly works, in wood, metal, glass, porcelain, steel, etc. It is also used in kitchen and bathroom materials assembly.</p> <p>Art. No. : W160 250-S, 310 ml, Transparent                      IMPA CODE: 812602</p> <p>Art. No. : W160 250-B, 310 ml, White                      IMPA CODE: 812605</p> <p>Art. No. : W160 250-S, 310 ml, Black</p>	<p>It is a one-component, elastic, moisture-curing, modified silane-based adhesive and sealant. Suitable for bonding various materials and sealing welded joints. It has medium viscosity and elastic. It can be used in areas such as body construction, HVAC engineering and ventilation systems.</p> <p>Art. No. : W160 270-B, 290 ml, White                      IMPA CODE: 815279</p> <p>Art. No. : W160 270-S, 290 ml, Black                      IMPA CODE: 815280</p>	<p>HyloMAR is a technically advanced, permanent plastic polyester-urethane sealant. It is compatible and resistant to wide variety of fluids; including all industrial fuels, oils, water and brine, air, turbine and piston engine combustion products, water, water/glycol, methanol blends, petroleum and synthetic ester-based lubricating oils, diesel and kerosene fluids. It (Avtur and Avcat) is also resistant to fluorocarbon refrigerants. It does not dry out and allows repeated use on and off up to 5 times.</p> <p>Art. No. : W200 073, 80ml                      IMPA CODE: 812656</p> <p>Art. No. : W200 073-300, 300ml</p>



### WINKEL PRO ANAEROBIC ACTIVATOR

Winkel PRO Anaerobic Activator is a spray form product formulated to increase the curing speed of anaerobic adhesives. It accelerates the curing of the anaerobic product in applications where the temperature is below +5°C or in passive metals.

Art. No. : 20700, 200ml  
 IMPA CODE: 812738



### WINKEL PRO FAST CLEANER

It is a high performance cleaner spray product based on alcohol, ether and hydrocarbon. The formula contains more than 90% active ingredients. It dries quickly and eliminates moisture on metal surfaces, making the surface ideal for adhesion.

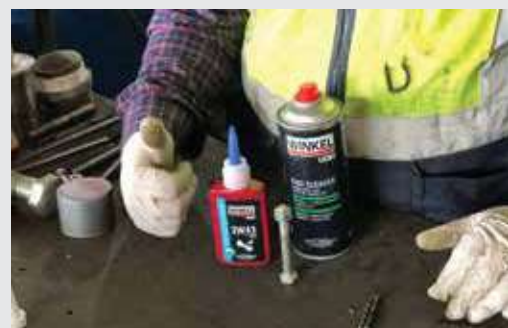
Art. No. : 20071, 400 ml  
 IMPA CODE: 812736



### WINKEL PRO GUARD TAMPER PROOF PASTE

It is an innovative tamper product used for sealing moving or warranty parts, replacing traditional tamper proof materials. When connection is opened unauthorizedly, it will tear and allow visual inspection. It can also be applied to observe micro movements. When applied to a hot surface, the curing speed increases.

Art. No. : 20802, 50 g, Yellow  
 Art. No. : 20803, 50 g, Blue  
 Art. No. : 20804, 50 g, Red







[www.winkelgroup.de](http://www.winkelgroup.de)



## ALUMINUM CHROME SPRAY



Aluminum coating with shiny chrome effect. It provides very good adhesion to metal, ceramics, wood and glass. Application surfaces should be clean, dry and free of oil, rust, dust etc. Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage. It can be used in boiler production facilities, ventilation and pipe installations, and furnaces.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W140 441  
**IMPA CODE:** 450810

## ALUMINUM SPRAY



Provides heat-resistant corrosion protection to metal surfaces. It has long service life. The purity of dry film zinc and zinc compounds is more than 90%. Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage. It can be used in industry for protection against corrosion, protection in heating, cooling and ventilation systems, and repair of galvanized parts.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W140 440  
**IMPA CODE:** 450814

## ZINC SPRAY (LIGHT)



It is a dry film product containing zinc compounds that provides long-term protection against corrosion on metals. It is suitable for the protection of damaged galvanized layers, coatings, surfaces after drilling, cutting and spot welding applications. It can also be applied as a protective primer coating for parts exposed to moisture. It has a temperature resistance of +300°C. Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W140 443  
**IMPA CODE:** 450812

## ZINC SPRAY (DARK)



It is a dry film product that prevents corrosion on metals with its high metallic zinc content. It can be painted over and is resistant to salt water. Typical application areas are the steel and construction industry, engineering, the shipbuilding industry and the welding industry. Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W140 444  
**IMPA CODE:** 450811

## COPPER SPRAY



It is a weather-resistant, copper-coloured protective spray. It is used for coating and protection purposes on parts exposed to heavy workload. It allows aesthetic coating, especially on copper, yellow and brass parts. Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage. It can be used on all metal parts and other surfaces.

**Size :** 400 ml  
**Box :** 12 Pcs  
**Art. No. :** W140 442  
**IMPA CODE:** 450565



## ZINC SPRAY PERFECT BRIGHT

(ASTM 780 Approved / 550 Hours Salt Water Resistance)



It contains zinc and zinc compounds with a purity of more than 98% and provides long-term protection against corrosion on metals. It is fast drying, smooth, non-porous and paintable. It is heat resistant up to +300°C. It is widely used in the automotive industry and construction industry. Repairs damaged galvanized coatings. Conforms to ASTM A 780. According to DIN EN ISO 9227; It has a 550-hour salt water spray test approval, and no corrosion has been observed on metal parts coated with Winkler Zinc Spray Perfect Bright for up to 550 hours.

Size : 400 ml  
Box : 12 pcs  
Art. No. : W140 437  
IMPA CODE: 812787



## INOX SPRAY LIGHT (PREMIUM)



Wear-resistant inox coating. It provides protection against corrosion on surfaces in the repair of damaged stainless steel parts and in severe weather conditions. It is an effective surface coating on plastics as well as many metals. Shake the can vigorously until to hear the mixing ball moves freely (approx. 2 minutes ) before usage. Repeat shaking before each spraying.

Size : 400 ml  
Box : 12 pcs  
Art. No. : W140 448  
IMPA CODE: 450565

## INOX SPRAY (LIGHT) CLASSIC



It is used to repair damaged steel parts. It provides reliable corrosion protection even in extreme weather conditions. Provides effective surface coverage for all metal parts, most plastic materials, wood, stone, cardboard, glass, etc. Provides short-term temperature resistance up to approximately +400°C. Suitable for sealing the weld point. It is a fast curing product.

Size : 400 ml  
Box : 12 pcs  
Art. No. : W140 438



## INOX SPRAY (DARK)

It is weather and heat resistant ( 280°C ). It provides very good adhesion to metal, wood, glass, stone, etc. Protects against friction and scratching. Stainless steel colour. Shake the can vigorously until to hear the mixing ball moves freely (approx. 2 minutes ) before usage. Repeat shaking before each spraying.

Size : 400 ml  
Box : 12 pcs  
Art. No. : W140 447

## ZINC PASTE



Single component product. It can be applied as top coat protection on aluminum surfaces or over the old galvanized layer. Provides cathodic protection. Conforms to ISO 3549 and ASTM A780. It should be mixed thoroughly in the box before application with a suitable mixer tool until it becomes homogeneous. It provides a thickness of 40 to 60 µ in a single layer application.

Size : 500 ml  
Box : 12 pcs  
Art. No. : W140 620-500

Size : 1 kg  
Box : 12 Pcs  
Art. No. : W140 620  
IMPA CODE: 252102

## MOISTURE PROTECTION SPRAY



It repels moisture and water from the surface. It creates a transparent protective film against corrosion. It protects electrical installations, electrical devices, motors and machines, hand tools and weapons from damage caused by moisture. It can be easily used in environments with high humidity such as in the food industry, industrial kitchens, beverage filling factories, workshops and repair shops, etc.

Size : 400 ml  
Box : 12 pcs  
Art. No. : W150 166

## BRASS COATING SPRAY



It is gold-coloured, weather- and friction-resistant brass plating spray product. It is preferred in painting and decoration works, and in aesthetic applications on gold colored items. It can also be used to cover weld marks. Shake the can vigorously until to hear the mixing ball moves freely (approx. 2 minutes ) before usage. Repeat shaking before each spraying.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W140 450

## CORROSION PROTECTION SPRAY



It repels water and moisture from surfaces with high penetration effect,. It is ideal for protecting machined surfaces against corrosion. It is used for long-term protection of metal surfaces in sensitive equipment and measuring instruments in workshops and also for stored parts. Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage.

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W160 117  
**IMPA CODE:** 450581

## PROTECTIVE WAX SPRAY



It forms a wax layer resistant to water and salt water vapor where it is applied. It is easy to remove from surfaces. It provides protection against corrosion, especially during overseas loads. It is also suitable for long-term protection of machines and tools. The surface to be used must be clean and dry.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W160 106  
**IMPA CODE:** 450815

## LONG TERM CORROSION PROTECTION



It forms a wax layer resistant to water and salt water vapor where it is applied. It is easy to remove from surfaces. It provides protection against corrosion, especially during overseas loads. It is also suitable for long-term protection of machinery and tools. The surface to be used must be clean and dry. It can be applied with a brush.

**Size :** 30 lt  
**Box :** Gallon  
**Art. No. :** W140 621

## MOLD PROTECTANT SPRAY



It is a long-term coating that does not contain metal and is resistant to corrosion, steam and water. It forms a permanent dry film that is insoluble in water. It is used for maintenance, repair and lubrication in parts contact with water. Ideal for all motor vehicles, repair shops and maintenance workshops. Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 170



# METAL COATING & PROTECTION SPRAYS

## WINPLAST PLASTIC GUARD SPRAY



Plastic protection spray is a type of varnish that prevents corrosion. When applied, it creates a flexible and impermeable layer. It can be easily peeled off the surface and removed when it is required. It provides visual control with its blue color. It can be applied to all plastics and elastomers, as well as to protect metal materials during production, storage or transportation. Shake the can well before use.

Size : 400 ml  
Box : 12 pcs  
Art. No. : W160 113

## STAINLESS STEEL CARE SPRAY



It is a spray product for cleaning, maintenance and protection on all stainless steel surfaces. It removes rust and water marks and prevents fingerprint formation. It can be used for general purpose polishing and protection on stainless surfaces, and for sanitary cleaning purposes in kitchens, hotels, airports and various industries. After application, polish the surface with a clean cloth. See the product label for details.

Size : 400 ml  
Box : 12 pcs  
Art. No. : W150 159  
IMPA CODE: 450813

## STAINLESS MAINTENANCE OIL SPRAY



Provides protection and care on all stainless steel surfaces. It is effective in removing rust and water-borne stains and cleaning fingerprint stains. It is used for cleaning and polishing industrial equipment.

Size : 500 ml  
Box : 12 pcs  
Art. No. : W150 152  
IMPA CODE: 450803



## ANTI-SEIZE COPPER PASTE



It is an anti seize paste containing full synthetic lubricant and copper particles. It prevents the seizing of moving parts operating under high temperature and pressure. It is resistant to washing with pressurized water.

Size : 500 g                      Size : 1 Kg  
 Box : 12 pcs                    Box : 12 pcs  
 Art. No. : W150 201            Art. No. : W150 202  
 IMPA CODE: 450891          IMPA CODE: 450891

Color : Copper  
 Grade : 2 (NLGI)  
 Operating Temperature : -20°C + 1700°C

## ANTI-SEIZE CERAMIC PASTE



It is an excellent anti seize paste enriched with ceramic particles. It has water repellent properties and adheres perfectly to surfaces. It gives excellent results in parts exposed to high temperature and pressure such as connections, bearings, chain systems, pressure devices, etc.

Size : 1 Kg  
 Box : 12 pcs  
 Art. No. : W150 200  
 IMPA CODE: 450884

Color : Off-White  
 Grade : 2 (NLGI)  
 Operating Temperature : -20°C + 1700°C

## ANTI-SEIZE METAL ASSEMBLY PASTE



It is a metal-added anti seize paste that does not contain heavy metals and silicone. Provides excellent protection against fresh-salt water, steam, gas, acid, solutions and gasoline.

Size : 1 Kg  
 Box : 12 pcs  
 Art. No. : W150 219  
 IMPA CODE: 450874

Color : Grey  
 Grade : 2 (NLGI)  
 Operating Temperature : -20°C + 1700°C

## ANTI-SEIZE COPPER SPRAY



It is a spray anti seize paste containing fully synthetic lubricant and copper particles. It prevents the seizing of moving parts operating under high temperature and pressure. Resistant to water, gasoline, oil, grease and gases. It provides remote application on moving parts that are difficult or impossible to disassemble.

Size : 400 ml  
 Box : 12 pcs  
 Art. No. : W160 101  
 IMPA CODE: 450565

Color : Copper  
 Grade : 2 (NLGI)  
 Operating Temperature : -100°C + 1200°C

## ANTI-SEIZE CERAMIC SPRAY



It is a metal and graphite-free spray anti seize paste. It provides efficient lubrication with its high-tech ceramic structure. It is resistant to gas, salt, acid and solutions. Prevents friction-induced sticking and corrosion for heavy bearings and sliding surfaces.

Size : 400 ml  
 Box : 12 pcs  
 Art. No. : W160 200  
 IMPA CODE: 450847

Color : Off-White  
 Grade : 2 (NLGI)  
 Operating Temperature : -40°C + 1400°C

## ANTI-SEIZE METAL SPRAY



It is a metal-added anti seize paste that does not contain heavy metals and silicone. Provides excellent protection against fresh-salt water, steam, gas, acid, solutions and gasoline.

Size : 400 ml  
 Box : 12 pcs  
 Art. No. : W160 100  
 IMPA CODE: 450846

Color : Grey  
 Grade : 2 (NLGI)  
 Operating Temperature : -40°C + 1200°C

## MoS<sub>2</sub> DRY LUBRICATION SYSTEM



It is a spray product that provides dry film lubrication in equipment where sliding friction occurs. It reduces friction in systems operating under heavy loads with its MoS<sub>2</sub> additive. Surfaces should be clean and dry for best results.

**Size** : 400 ml  
**Box** : 12 Pcs  
**Art. No.:** W160 109  
**IMPA CODE:** 450832

## PTFE DRY LUBRICATION SPRAY



It is a colorless, PTFE-containing dry film lubricant for metal, rubber, plastic and other materials. Ideal for applications where grease cannot be used due to pollution and aesthetics. It is suitable for use in the electrical, plastic, textile and automotive industries.

**Size** : 400 ml  
**Box** : 12 Pcs  
**Art. No.:** W150 130  
**IMPA CODE:** 450825

## SILICONE SPRAY



It is a silicone spray lubricant with good separation and lubrication properties. It repels moisture and protects elastomer materials against freezing. It prevents adhesion and wear, and reduces noise caused by friction. It can also be used as a mold release agent.

**Size** : 500 ml  
**Box** : 12 Pcs  
**Art. No.:** W160 112  
**IMPA CODE:** 450607

## SILICONE SPRAY H1



It is a food-approved silicone spray lubricant with good release and lubrication properties. It repels moisture and protects elastomer materials against freezing. It prevents adhesion and wear, and reduces noise caused by friction. It is the ideal lubricant for all equipment in the food industry that wears out and loses efficiency as a result of friction.

**Size** : 500 ml  
**Box** : 12 Pcs  
**Art. No.:** W160 119  
**IMPA CODE:** 450828

## CHAIN AND ROPE CARE SPRAY



It creates a flexible protection layer against corrosion. It is resistant to abrasion, pressure, water and moisture. It produces a solution that prevents seizing and dirt accumulation in moving mechanisms where grease causes problems. Prevents bimetal corrosion. Ideal for moving equipment especially gear mechanisms, chains, etc. with its excellent penetration effect, it reaches the center of the chain link and provides homogeneous lubrication.

**Size** : 400 ml  
**Box** : 12 Pcs  
**Art. No.:** W160 115  
**IMPA CODE:** 450826

## CHAIN CARE SPRAY



It is ideal for cleaning and maintaining of chain systems. With its superior penetrating ability, it moves towards the center of the applied surfaces and provides effective lubrication. It is resistant to water and moisture. Prevents bimetal corrosion. It is especially used to maintain and extend the service life of chain equipment that requires periodic maintenance, such as forklift chains.

**Size** : 400 ml  
**Box** : 12 Pcs  
**Art. No.:** W160 116  
**IMPA CODE:** 450829

## FOOD LUBRICATION SPRAY



It is an NSF H1 approved lubricant for contact with food or food processing processes. It provides a safe and effective solution with its special and approved formulation. It extends the service time, especially in expensive equipment exposed to wear due to friction.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W160 105

## GUN CARE AND PROTECTION OIL SPRAY



Gun maintenance oil is a multi-purpose spray lubricant. Protects, lubricates and cleans equipment against corrosion. It disassembles of rust-locked parts. It is ideal for operating the springs and mechanisms of equipment without any problems typically as rifle, pistol etc.

**Size :** 200 ml  
**Box :** 12 pcs  
**Art. No. :** W160 111

## MULTI-PURPOSE OIL (H1)



It is an NSF H1 approved spray lubricant suitable for use in food processing equipment. It penetrates to the surfaces and repels water and moisture from the surface. Provides protection against rust and corrosion. It has good lubrication properties.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 221

## HIGH TEMP RESISTANT CHAIN OIL



It provides effective lubrication by penetrating into the metal surface. It prevents corrosion, jamming, bimetal corrosion and noise problems. It does not migrate from the applied surface, and has an upper strength temperature of +250°C. It is especially ideal for chains and ropes operating at high speeds.

**Size :** 30 lt  
**Box :** Gallon  
**Art. No. :** W600 540

## MULTI SIGNUM LIQUID SET



Mineral-based lubricant with 5-functions protects against corrosion - lubricates, prevents noise, cleans, dissolves rust and removes moisture. It can be used in many applications with its special formula and versatility. Ideal for applications such as lubricating hinges and guides, opening connections locked from rust, cleaning electronic devices from water and moisture, etc.

**Size :** 5 lt  
**Box :** Set  
**Art. No. :** W140 631

**Size :** 30 lt  
**Box :** Gallon  
**Art. No. :** W140 609-30

## MULTI SIGNUM SPRAY



Mineral-based lubricant with 5-functions protects against corrosion - lubricates, prevents noise, cleans, dissolves rust and removes moisture. It can be used in many applications with its special formula and versatility. Ideal for applications such as lubricating hinges and guides, opening connections locked from rust, cleaning electronic devices from water and moisture, etc.

**Size :** 200 ml  
**Box :** 12 Pcs  
**Art. No. :** W160 110-200

**Size :** 400 ml  
**Box :** 24 Pcs  
**Art. No. :** W160 110  
**IMPA CODE:** 450821



## SILICONE GREASE



It is a silicone grease used for filling and lubricating purposes in the combination of plastic, metal and rubber materials. It is odorless. It delays dirt and moisture and reduces noise. It can be used for maintenance purposes in gasket groups and prevents embrittlement in O-rings etc.

Size : 1 kg  
Box : 6 pcs  
Art. No. : W150 210-1  
IMPA CODE: 450758

Size : 25 kg  
Box : -  
Art. No. : W150 211-25

## SILICONE GREASE H1



It is an NSF H1 approved fully synthetic silicone oil developed for the food industry. It has high thermal resistance, excellent resistance to water and vapor, has high viscosity index base oils and provides very good performance at low temperatures. It is ideal for use in plastic-plastic, metal-plastic, ceramic-plastic and ceramic-ceramic combinations; compatible with most plastics and elastomers, including PC and EPDM. Operating temperature is between -50°C and 200°C.

Size : 1 kg  
Box : 12 pcs  
Art. No. : W150 212-1

Size : 25 kg  
Box : 1 pcs  
Art. No. : W150 212-25

## GENERAL PURPOSE BEARING GREASE



It is a general purpose bearing grease contains lithium soap and EP additives. It is resistant to washing with water. It provides long-term lubrication on applied surfaces. It minimizes corrosion and wear. It is ideal for lubricating systems operating under extreme pressure, load and vibration.

Size : 1 kg  
Box : 12 pcs  
Art. No. : W150 206  
IMPA CODE: 450526

Size : 16 kg  
Box : 1 pcs  
Art. No. : W150 205-16

## FOOD GREASE



It is a food-approved grease used for lubrication and corrosion protection in parts contacted with food. It is transparent and odorless. Resistant to water, salt water and vapor. Prevents friction, wear and corrosion. It extends the service life of all food processing equipments.

Size : 1 kg  
Box : 12 pcs  
Art. No. : W150 204-1

Size : 18 kg  
Box : 1 pcs  
Art. No. : W150 204-18

## HIGH TEMPERATURE GREASE 700°C



It is a multiple purpose grease, and also used as assembly paste, lubricant and release agent at high temperatures. Its molybdenum disulfide content is much higher than similar products. It operates at high temperatures up to 700° C.

Size : 1 kg  
Box : 12 pcs  
Art. No. : W150 218

Size : 16 kg  
Box : 1 pcs  
Art. No. : W150 218-16

## HIGH TEMPERATURE GREASE 400°C



It significantly reduces friction with its rich MoS<sub>2</sub> content. It is used successfully in equipment that operates under heavy load and where friction causes problem. Ideal for moving parts in industrial, automotive and textile industries. It has temperature resistance up to 400°C.

Size : 1 kg  
Box : 12 pcs  
Art. No. : W150 217

Size : 16 kg  
Box : 1 pcs  
Art. No. : W150 217-16

## HIGH SPEED GREASE W15 **NEW**



High Speed Grease W15 is a special high speed grease reinforced with EP additives, synthetic base oil and barium complex soap. It exhibits a long-lasting performance, especially in equipment parts operating under wet, variable, impact and vibrating load environment.

Size : 1 kg  
 Box : 12 pcs  
 Art. No. : W150 223

## HIGH PERFORMANCE GREASE **NEW**



High Performance Grease is a combination of high temperature resistant lithium complex soap and highly refined mineral oils. Special formula with high viscosity base oils withstands high load.

Size : 1 kg  
 Box : 12 pcs  
 Art. No. : W150 222

## MOLYBDENUM PASTE WDR 450 **NEW**



Molybdenum Paste WDR 450 is a dark Grey multi-purpose assembly paste containing high amounts of graphite and molybdenum disulphide, designed for use at high temperatures.

Size : 1 kg  
 Box : 12 pcs  
 Art. No. : W150 225

## MARINE GREASE **NEW**



Marine Grease is a calcium sulfonate complex oil developed especially for the steel industry. It is formulated to lubricate bearings and bearings exposed to heavy loads and high temperatures in wet environmental conditions. Its unique formula provides excellent rust prevention and resistance to water washing.

Size : 1 kg  
 Box : 12 pcs  
 Art. No. : W150 213

## HEAVY DUTY GREASE **NEW**



Heavy Duty Grease is a calcium sulfonate complex oil developed specifically for the steel industry. It is formulated to be used for high temperature lubrication of plain and roller bearings exposed to heavy loads in water environments. Its unique thickening structure gives excellent anti-rust properties and outstanding resistance to water washing.

Size : 1 kg  
 Box : 12 pcs  
 Art. No. : W150 211

## MULTI GREASE SPECIAL WHITE **NEW**



Multi Gres Spezial White is a lithium soap grease with white solid lubricant and EP additives. It minimizes rust, oxidation and wear by providing effective protection on the surfaces. It provides excellent protection in systems operating under heavy loads and vibrating with specially developed anti-wear, corrosion and high pressure additives.

Size : 1 kg  
 Box : 12 pcs  
 Art. No. : W150 224



## SILICONE GREASE SPRAY NEW



It is colorless and odorless lubricant contains methyl siloxane (silicone oil). It has excellent lubrication, insulation and protective properties on different materials. It is resistant to high temperatures (-55°C/+220°C). Protects surfaces against corrosion caused by steam, smoke and other factors. It can be used as a water repellent in many types of fabric and leather.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W160 122

## MULTI GREASE SPRAY NEW



It is a lithium based grease containing high quality compounds. It has a wide range of uses and good chemical stability. It repels water and adheres strongly to the surface. Shows excellent stability and durability against water, salty and dirty environment, acid and base solutions and atmospheric corrosion.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W160 125

## MOS<sub>2</sub> GEAR WHEEL SPRAY



It is a black colored grease that provides good adhesion to the surface under difficult conditions such as pressure and friction. It is resistant to high temperatures (-20°C/300°C). It has exceptional mechanical stability. Provides excellent protection against oxidation, moisture and corrosion.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W160 104

## GRAPHITE GREASE SPRAY



Its formula contains graphite and special additives makes it gives high adhesion and resistance to the hard conditions. It is water repellent, anti-corrosion and anti-wear. Resistant to high temperatures (-40°C / +400°C).

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W160 124

## WW 3000 LIQUID GREASE SPRAY



It is a semi-synthetic, sticky spray lubricant that is resistant to salt water. It provides effective protection as well as lubrication for parts exposed to high pressure, shock and vibration. It can be used in moving connections in brake or fuel lines and in many industrial purposes.

Size : 500 ml  
 Box : 12 pcs  
 Art. No. : W160 114  
**IMPA CODE: 450835**



## MOS<sub>2</sub> GEAR WHEEL SPRAY 400°C



It creates a friction-resistant protection layer. It repels water from the surface and protects against corrosion. It is resistant to pressurized water. It is used to lubricate chains, machines, gear wheels, etc. It minimizes sound and friction. . Shake the can vigorously until to hear the mixing ball moves freely (approx. 1 minute ) before usage. Repeat shaking before each spraying.

Size : 400 ml  
 Box : 12 pcs  
 Art. No. : W160 104  
**IMPA CODE: 450578**

## GENERAL PURPOSE CARTRIDGE GREASE



It is a general purpose bearing grease that provides safe and long-term lubrication under heavy loads and reduces friction and wear. It can be pumped with standard grease pumps. The bearing manufacturer's instructions must be followed.

Size : 400 ml  
 Box : 12 pcs  
 Art. No. : W150 220  
**IMPA CODE: 450483**

## LITHIUM WHITE GREASE SPRAY



Compatible with engineering plastics as well as metals. It does not contain metal. Lithium content formula resists to salt water and steam. Provides long-term protection against corrosion. Spray application provides effective lubrication at points that cannot be removed or accessed.

Size : 400 ml  
 Box : 12 pcs  
 Art. No. : W160 108  
**IMPA CODE: 450833**





## METAL WORKING OIL/SPRAY



It is used in machining of soft metals such as copper and aluminum. It minimizes cutting tool consumption in all kinds of drilling, cutting and tapping applications. It has low viscosity and provides rapid cooling. Provides protection against oxidation in post-processed parts.

Size : 400 ml  
 Box : 12 pcs  
 Art. No. : W160 103  
 IMPA CODE: 450115

## CUTTING OIL



It is a cutting fluid developed for soft metals, yellow and their alloys. It enables precise machining of soft metals with its superior cooling effect. It increases the efficiency and service time of cutting tools.

Size : 5 lt  
 Box : 4 pcs  
 Art. No. : W150 215-5

## WINCUT CUTTING TAPPING OIL



It is the perfect cutting fluid for surface treatment applications such as threading, tapping, etc. on aluminum, stainless steel and all steel surfaces. It minimizes friction and extends the life of cutting tools. Not recommended for yellow and copper surfaces.

Size : 460 g  
 Box : 12 pcs  
 Art. No. : W150 214 - 460

Size : 5 kg  
 Box : 4 pcs  
 Art. No. : W150 214 - 5

Size : 30 kg  
 Box : Gallon  
 Art. No. : W150 214 - 30

## WINPASTE (METAL WORKING PASTE)



It is ideal for leveling operations such as tapping, drilling, turning and cutting in metals such as highly alloyed carbon types, chromium-nickel alloys, stainless and heat-resistant alloys, titanium, manganese, cast steel, cast iron, etc. Its paste form provides long-term cooling and lubrication.

Size : 500 g  
 Box : 6 pcs  
 Art. No. : W150 216  
 IMPA CODE: 614198

## SYNTHETIC COOLANT



It is a white emulsion liquid that does not foam in soft and hard water. It is resistant to bacterial growth and odor formation. It is designed for machining of all types of ferrous and non-ferrous metals. Concentrated product can be mixed with water in a certain ratio depending on the type of metal to be used.

Size : 20 lt  
Box : Gallon

Art. No. : W150 208 - 20

Size : 30 lt

Box : Gallon

Art. No. : W150 208 - 30

## EROSION OIL



EDM oil ensures the most perfect working of the part in wire EDM processes. It is especially suitable for delicate and finely detailed parts. It provides the most suitable dielectric property in EDM (Electro Discharge Machining) processes. It is low volatile. It creates little smoke. It can also be applied by dipping method.

Size : 60 lt

Box : Gallon

Art. No. : W150 203-60

## GRINDING LIQUID

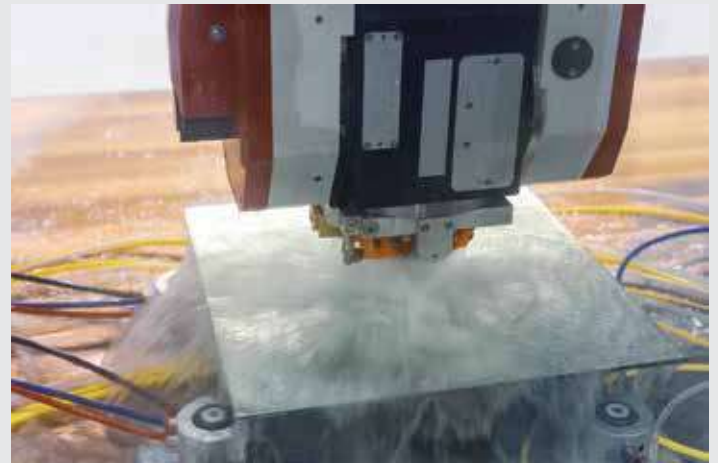


It is a synthetic lubricant developed for grinding iron and steel. It provides clean work on surfaces and increases grinding precision with its excellent cooling and rust prevention properties. It has anticorrosive property and provides additional protection to the processed parts in turning/milling operations and threading/profile applications.

Size : 30 lt

Box : Gallon

Art. No. : W150 226-30



## CRACK DETECTING SPRAY



It allows crack control without damaging the surfaces. It comes in a set of 3 different colors and is applied gradually. It is suitable for all branches of industry. It is especially used to detect cracks that may occur after welding.

**Size :** 500 ml  
**Box :** Kit  
**Art. No. :** W150 141  
**Color :** Red-White-Green  
**IMPA CODE:** 450844

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 142  
**Color :** Red  
**IMPA CODE:** 450844

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 143  
**Color :** White  
**IMPA CODE:** 450844

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 144  
**Color :** Green  
**IMPA CODE:** 450844

## ICE RUST REMOVER SPRAY



Unfreezes rust in connections quickly and easily. It makes the rust brittle with its cooling effect. No waiting required. It reaches even the smallest gaps on the surface. It leaves no residue.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W160 102  
**IMPA CODE:** 450822

## RUST REMOVER SPRAY H2 NEW



Lawn mowers, garden tools, hinges, screws, nuts, doors and fences, bicycle loosening wires, rusted car and caravan parts, rusted and oxidized screw connections, for removing rust from cars, trucks, agricultural and construction machinery and equipment used. Suitable for use in food processing areas. These products are used on equipment and machine parts in locations where there is no possibility of the lubricant or lubricated part contacting edible products.

**Size :** 300 ml  
**Box :** 12 Pcs  
**Art. No. :** W160 172

## STRONG RUST REMOVER MoS<sub>2</sub>



It is a mineral oil based rust remover with excellent properties, it has superior rust penetration and high rust dissolving ability. MoS<sub>2</sub> reduces friction due to solid lubricants. It does not contain resin, silicone and acid. Corrosion protection is good and long-lasting.

**Size :** 400 ml  
**Box :** 24 Pcs  
**Art. No. :** W160 170  
**IMPA CODE:** 450823

## LEAK DETECTION SPRAY PREMIUM



It is an ideal product to detect whether there are any leaks in natural gas connections, fixtures, and joints. The product is easy to use and consists of 97% pure substance. It is not flammable. It protects against corrosion and gives positive results. After the test, it should be rinsed with clean water. It has no reaction with oxygen.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 161

## SMOKE DETECTOR TEST SPRAY NEW



It detects the capacity of smoke detectors quickly and safely without the need for additional test devices. The spray product leaves no residue and does not cause pollution. It provides reliable control in industrial facilities, service buildings, ships or homes.

**Size :** 200 ml  
**Box :** 12 pcs  
**Art. No. :** W150 145  
**IMPA CODE:** 331077



## ANTISTATIC SPRAY



The product creates an anti-static surface on plastic, metal, leather and wooden surfaces. Protective film is resistant to corrosion and moisture. It is used as a lubricant in rails, conveyor belts, hinges, plain bearings, etc. Good separator especially for plastic and metal forms. It has a protective effect against aging on plastic and rubber parts and gaskets.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 140

## COOLING SPRAY



It has a special content and cools the applied surfaces to -50°C in a short time. It quickly cools the part, shortening the repair time and saving time in cases where emergency responses is required on hot parts. It can be used in industrial areas and electronics.

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W170 121

## GAS METAL ARC WELDING SPRAY



It is applied before welding to prevent bonding of welding spatter to the surface. It can also be used to protect the welding torch. It does not contain silicone and acid.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 147  
**IMPA CODE:** 450842

## INSULATING VARNISH SPRAY



It is an insulation varnish that creates a water-resistant protection layer. It withstands to bad weather conditions and corrosion. It meets DIN 53482 standard with its high insulation value. It is especially suitable for hard-to-reach places and can be used in repair and maintenance workshops of electronic products, furniture repairs and hobby purposes (art works, model making, sports, hand tools, etc.).

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 148  
**Color :** Red

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 149  
**Color :** Transparent

## ADHESIVE SPRAY



It is a synthetic rubber-based spray contact adhesive with very high adhesion strength. Typical areas of use: In handicrafts, industry and automobile workshops; paper, cardboard, polystyrene, felt, metal, many plastics, foam, wood, fabric, insulating mats etc. It can be used for bonding materials.

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 158

## WINZOL SEALANT SPRAY



It is a protective rubber spray that can be used to fill leaks and cracks. It acts as a waterproof, flexible seal on metal, aluminum, PVC, masonry, bitumen roofing materials, vinyl siding, fiberglass and similar materials. It is resistant to impacts. In addition to industrial use, it is used in the repair of vehicle underbody coatings.

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 304  
**Color :** Black

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 305  
**Color :** Grey

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 306  
**Color :** White

**Size :** 500 ml  
**Box :** 12 pcs  
**Art. No. :** W150 308  
**Color :** Transparent





## V BELT SPRAY



Developed for the maintenance of all flat, axial and V belts made of PVC, rubber and leather. It feeds the belt, reduces noise and keeps the belt on the pulley axis. In this way, it increases the pulling power and efficiency of the belt while providing protection against wear.

**Size :** 400 ml  
**Box :** 12 Pcs  
**Art. No. :** W150 157  
**IMPA CODE:** 450603

## CERAMIC WELDING AND TORCH PROTECTION SPRAY



It prevents welding spatters from adhering to the surface and torch in MIG/MAG welding and all kinds of plasma and laser cutting. Since it provides long-term protection, it extends the re-application period of the product. It is white color.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 303

## TORCH AND WELD CLEANING LIQUID



It is a weld protection product with excellent separation properties, developed especially for welding processes in container, wagon and ship construction. Depending on welding process, it is sufficient to apply it once or twice a day. It effectively protects torches as well as surfaces.

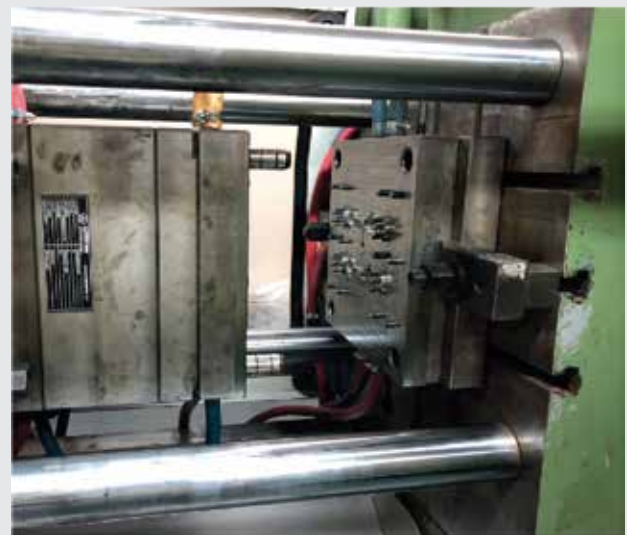
**Size :** 25 lt  
**Box :** Gallon  
**Art. No. :** W140 616

## SILICONE-FREE MOLD RELEASE SPRAY



It is formulated as a mold release agent for plastic injection molds. It allows metal and plastic to be released from each other without any problems. Since it does not contain silicone, it does not transfer to molded parts.

**Size :** 400 ml  
**Box :** 12 pcs  
**Art. No. :** W150 154



## GENERAL CLEANING SPRAY



It cleans oil, dirt, soot and resin quickly and without leaving any traces on all metals, glass, ceramics and wood. It has the ability to penetrate even the thinnest gaps. Not suitable for plastic and rubber. If bonding will be done on the cleaned part, it should be rinsed and dry before bonding.

Size : 500 ml  
 Box : 24 Pcs  
 Art. No. : W170 104  
 IMPA CODE: 450622

## INDUSTRIAL CLEANER PRO



It can be used for cleaning and degreasing before priming and painting, for cleaning machine parts or before the application of other products on surfaces can be used where a greasy substrate their effect would adversely affect the situation.

Size : 500 ml  
 Box : 12 Pcs  
 Art. No. : W170 106

## MULTI-PURPOSE CLEANER SPRAY (K1)



It perfectly cleans oil and grease in the food industry, in places where there is no direct contact with food.

Size : 500 ml  
 Box : 12 Pcs  
 Art. No. : W170 126

## LABEL REMOVER SPRAY



It removes adhesive residues, labels, resin, tar and the most stubborn dirt from the surfaces of metal, glass, ceramics, porcelain, enamel and all synthetic materials. It cleans without leaving any residue.

Size : 400 ml  
 Box : 12 Pcs  
 Art. No. : W170 103

## PAINT POLISH GASKET REMOVAL SPRAY



It is a strong remover product that allows you to clean all kinds of adhesive and gasket residues without scratching the surfaces or impairing their sensitivity. It is not recommended for use on sensitive plastics and PVC. Performance increases when the application surface is first cleaned of coarse dirt and then the product is applied.

Size : 400 ml  
 Box : 12 Pcs  
 Art. No. : W170 100  
 IMPA CODE: 450802

## MULTI FOAM SPRAY



It cleans oil, nicotine, insect residues and fingerprints from all surfaces. It remains on the surface as foam provides deep cleaning.

Size : 400 ml  
 Box : 12 Pcs  
 Art. No. : W170 112  
 IMPA CODE: 450804

## CONTACT SPRAY (NOT OIL)



It effectively cleans dirt that may cause arcing on the contacts of electrical parts. It provides safe use for cleaning and maintenance purposes on electronic devices. Once applied, it forms a dry film that repels moisture and water.

**Size :** 200 ml  
**Box :** 12 Pcs  
**Art. No. :** W170 109-200

**Size :** 400 ml  
**Box :** 12 Pcs  
**Art. No. :** W170 109  
**IMPA CODE:** 450808

## CONTACT SPRAY (OILY)



It is a mineral oil-based organic solvent developed for cleaning electronic cards and sockets. It cleans contacts, fuses and cable connections from oxidation and dirt. It repels water and moisture. After application, it forms a wet film on the surface.

**Size :** 400 ml  
**Box :** 12 Pcs  
**Art. No. :** W170 108  
**IMPA CODE:** 450619

## LCD CLEANER SPRAY



It is used to clean of oil, nicotine, dust and other residues from all LCD and screen devices, keyboards, printers, photocopiers, etc.

**Size:** 400 ml  
**Box:** 12 Pcs  
**Art. No. :** W170 110  
**IMPA CODE:** 450807

## INDUSTRIAL & MOLD CLEANER SPRAY (NON FLAMMABLE)



Industrial Cleaner Pro Fireproof is formulated for powerful cleaning and fireproofing. It dissolves and eliminates residue and deposits with its effective formula that cleans and dries in a short time.

Mold Cleaning Spray has a powerful formula. It dissolves and eliminates residue and deposits with its effective formula that cleans and dries in a short time.

**Size:** 500 ml  
**Box:** 12 Pcs  
**Art. No. :** W170 130 Industrial  
**Size:** 500 ml  
**Box :** 12 Pcs  
**Art. No. :** W170 131 Mold

## AIR CONDITIONER CLEANING SPRAY



It is an effective cleaner developed for internal cleaning of air conditioners and prevents the formation of fungus. It effectively removes odor in air conditioners that have not been used for a long time.

**Size :** 200 ml  
**Box :** 24 Pcs  
**Art. No. :** W170 118

## COMPRESSED AIR SPRAY NONFLAMMABLE



It is a dry and deep cleaning spray for hard-to-reach, sensitive parts. It is especially used for sensitive cleaning of electronic devices. The product has dual functions; When applied upside down it acts like a cooling spray.

**Size :** 400 ml  
**Box :** 12 Pcs  
**Art. No. :** W170 188

## WELDING PASTE



During welding, it prevents splashing particles from sticking to the torch. It protects the torch and extends its lifespan. It does not contain silicone. It does not emit toxic gases or smoke. It does not harm the user or the environment. It is very economical.

**Size:** 200 gr  
**Box:** 12 pcs  
**Art. No. :** W150 302-200

## WINOL INOX PASTE



General purpose cleaning and maintenance paste. It cleans dirt, lime and yellowing residues in one step. It provides industrial performance at many points in kitchen, bathroom, garden furniture etc.

**Size:** 300 gr  
**Box:** 36 pcs  
**Art. No. :** W170 123

## WINOL GLANZ (METAL POLISHER)



It is used in applications for cleaning, maintenance, protection and polishing of all pure metals. It is not suitable for anodized coating metals. Its non-toxic and special content does not irritate the skin and delays the formation of stains on metals. It can be used on all metals as well as fiberglass, painted surfaces and deformed coatings.

**Size:** 150 ml  
**Box:** 50 pcs  
**Art. No. :** W140 623

## LIME REMOVER



It is developed to clean lime residues in copper, aluminum pipes in cooling towers. It is very effective to clean of heating and cooling systems (e.g. heat exchangers). It can be diluted to different concentrations depending on the degree of contamination.

**Size:** 30 lt  
**Box:** Gallon  
**Art. No. :** W140 605

## WINOL UNIVERSAL BIO REINIGER



It is a water-based cleaner used to clean residues such as dirt, oil and ink from all kinds of surfaces. It is biodegradable and broken into its components in nature. The concentrated product can be customized for its intended use by diluting it with water depending on the surface to be cleaned and the type of dirt.

**Size:** 1 lt  
**Box :** 9 pcs  
**Art. No. :** W170 120-1  
**IMPA CODE:** 551511

**Size:** 5 lt  
**Box:** 4 pcs  
**Art. No. :** W170 120-5

**Size:** 30 lt  
**Box:** Gallon  
**Art. No. :** W170 120-30

## PHOSPHATE FINISH



It is a cleaner used for degreasing metals such as iron, steel, brass and aluminum. In addition to cleaning the surfaces, it prepares the surfaces before wet or powder painting.

**Size :** 30 lt  
**Box :** Gallon  
**Art. No. :** W140 604

## WETOX WELD CLEANING GEL



Gel-form cleaner used for cleaning surfaces after stainless welding. It does not allow yellowing and rust formation in any way. It is especially ideal for the production of industrial kitchen equipments. It is applied to surfaces with the help of a brush.

**Size:** 2 kg  
**Box:** 6 pcs  
**Art. No. :** W140 618-2

## STAINLESS STEEL PICKLING SP-K 3000



It is a liquid product developed to clean oxidation, welding and rust stains on stainless steel surfaces. It can also be used to remove surface contamination in industrial areas, kitchens, installations, equipment, etc. with stainless surfaces.

**Size:** 20 kg  
**Box:** Gallon  
**Art. No. :** W140 619

## STAINLESS STEEL PICKLING BATHS SP-K 1000



It is an immersion cleaning liquid used to eliminate color differences in welded or heat-treated parts of stainless steel and return them to their original.

**Size :** 20 kg  
**Box :** Gallon  
**Art. No. :** W140 622

## WETOX WELD CLEANING GEL

**Non-Toxic**



It is a gel product used to clean welding spots, oxide marks and rust stains, especially on stainless steels with low sulfur content. It can be applied on surfaces with stainless steel contamination in industrial areas, kitchens, installations, machinery, etc. Clean rough residues from the surfaces before application for best results.

**Size :** 3 kg  
**Box :** 1 pcs  
**Art. No. :** W140 618-3

## STAINLESS POLISHING AND PROTECTION LIQUID



It is a liquid product for cleaning and maintenance purposes on stainless steel, chrome, nickel and alloy metal surfaces. While it easily cleans stains such as dirt and fingerprints, it delays contamination and provides shine with the film layer it creates.

**Size :** 30 lt  
**Box :** Gallon  
**Art. No. :** W140 614-30

## STAINLESS PASSIVATION FLUID



Passivation Fluid is used to prevent oxidation on stainless steels after mechanical processes such as pickling, grinding or polishing. The passive film formed on the surfaces protects the treated shiny surface of stainless steel.

**Size :** 20 kg  
**Box :** Gallon  
**Art. No. :** W140 624

## PARTS CLEANER LIQUID



Its special formula allows cleaning of layers of grease, tar and other oils without much effort. Especially for cleaning brake fluid, oil, grease, as well as dust etc. in automobile parts. It is also effective in removing impurities.

**Size :** 60 lt  
**Box :** Gallon  
**Art. No. :** W140 611-60

## PART CLEANER INCOMBUSTIBLE



Solvent-based cleaner that evaporates quickly from the surface. It produces quick solutions for processes that require effective cleaning in a short time. It can also be applied with a brush or cloth on very dirty surfaces. It does not create fire risk and is ideal for quick cleaning of large surface parts.

**Size** : 30 lt  
**Box** : Gallon  
**Art. No.** : W140 612-30

## INDUSTRIAL HAND CLEANER (ORANGE)



Industrial Hand Cleaning Cream (Orange) cleans hands from the most stubborn dirt, oil, tar, pitch, coal grinding dust and residues without using soap and water. The product has a skin moisturizing effect, so it is not harmful with frequent use, is pH neutral and does not contain solvents. The fine purifying granules it contains gently cleanse deep pores. It is highly effective, cleans deeply, moisturizes and is economical.

**Size** : 3 lt  
**Box** : 6 Pcs  
**Art. No.** : W140 598

**Size** : 30 lt  
**Box** : 1 Pcs  
**Art. No.** : W140 599

## ALU CLEANER



It is a ready-to-use cleaning, maintenance and polishing material on all metal surfaces, including aluminum and stainless steel. It delays the formation of stains on surfaces. It is ideal for use in refrigerators and other surfaces that do not come into direct contact with food.

**Size** : 30 lt  
**Box** : Gallon  
**Art. No.** : W140 600

## PLASTIC INJECTION FURNACE CLEANING



It cleans the mold when changing plastic raw materials of different types and colors in injection moulding. Eliminates color-related problems in color transition. The product is used by mixing with plastic raw material. When mixture fed to the injection mold, not only the mold surface but also the runners are effectively cleaned.

**Size** : 1 lt  
**Box** : 1 Pcs  
**Art. No.** : W800 655

## HIDDEN GLOVES



It is designed to prevent direct skin contact with oil and water-soluble substances such as detergent, acid, oil, grease, coolant, cutting oils, drilling emissions, adhesive, etc.

**Size** : 1 lt  
**Box** : 6 Pcs  
**Art. No.** : W140 628

## PROFI CLEAN EXTREME WIPES



It is a wipe that quickly cleans dirt from surfaces without water and soap. It can be used to clean many surfaces; on tools, machine and engine parts, lacquered or metal surfaces, different plastic and ceramic surfaces, etc. It can also be used on graffiti, permanent marker marks, oil, grease, paint, resin, tar, adhesive, asphalt, graphite, grass stains, rust and all industrial dirt.

**Size** : 72 Wipes  
**Box** : 6  
**Art. No.** : W140 608

## NATURAL HAND CLEANSING CREAM



It is a silicone-free hand cleaning cream that provides protection and care for all skin types. It has been clinically tested and does not cause problems in contact with food.

**Size** : 2 lt  
**Box** : 6 Pcs  
**Art. No.** : W140 627

## SKIN CARE AND PROTECTION LOTION



It is a care and protection lotion with ingredients that do not cause allergic reactions. Due to its safe formula, it can be used on the face, arms and legs as well as hands. For professional use only.

**Size** : 1 lt  
**Box** : 6 Pcs  
**Art. No.** : W140 626

## PROFI LEATHER CLEAN & MAINTENANCE WIPES



It is a cleaning wipe developed to renew leather and artificial leather. It is resistant to tearing and abrasion. The product is suitable for cleaning and care of all leather surfaces; leather car seats, leather furniture etc. Leather Cleaner & Care Cleaning Wipe provides permanent protection.

**Size** : 72 Wipes  
**Box** : 6  
**Art. No.** : W140 625

# SPRAY PAINTS

Multi-purpose acrylic spray paint, developed for use indoors and outdoors and on various surfaces. It dries fast, has superior coating quality. It creates stable and durable film. It has a wide selection of RAL codes with optional matte and glossy options.

Dry film thickness is 13 micron for additional layer. If more than one layer is applied, the thickness will increase.

	Art. No.		Art. No.		Art. No.
	<b>RAL 1007</b> DAFFODIL YELLOW W1007		<b>RAL 5015</b> SKY BLUE W5015		<b>RAL 9007</b> GREY ALUMINUM W9007
	<b>RAL 1028</b> MELON YELLOW W1028		<b>RAL 5017</b> TRAFFIC BLUE W5017		<b>RAL 9010</b> PURE WHITE W9010G
	<b>RAL 3000</b> FLAME RED W3000		<b>RAL 6005</b> MOSS GREEN W6005		<b>RAL 9010</b> WHITE MATTE W9010M
	<b>RAL 3001</b> SIGNAL RED W3001		<b>RAL 7001</b> SILVER GREY W7001		<b>RAL 9016</b> TRAFFIC WHITE W9016
	<b>RAL 3002</b> CARMINE RED W3002		<b>RAL 7016</b> ANTHRACITE GREY W7016		HIGH-TEMP RESIST BLACK W9005HT
	<b>RAL 3020</b> TRAFFIC RED W3020		<b>RAL 9005</b> JET BLACK W9005G		HIGH-TEMP RESIST GREY W9006HT
	<b>RAL 5010</b> GENTIAN BLUE W5010		<b>RAL 9005</b> BLACK MATTE W9005M		COPPER W140 442M
	<b>RAL 5012</b> LIGHT BLUE W5012		<b>RAL 9006</b> WHITE ALUMINUM W9006		GOLD W140 450G
					METALLIC CHROME W140 449M

For different RAL codes, please proceed to contact us at [info@winkelgroup.de](mailto:info@winkelgroup.de)





# METAL FILLED EPOXY REPAIR KITS



**WINKEL metal filled epoxies are repair products which contains different kind of metal fillers and harden at room temperature. They are specially designed for filling, repairing and bonding metal surfaces. They can also help effectively repair equipment that needs to be returned to service. Metal filled epoxy kits are generally preferred in industrial and commercial uses, especially during maintenance and repair of metal parts or structures.**

**Suitability for Metal Surfaces:** Different kind of fillers such as steel, aluminium, stainless steel etc.

**Mechanical Strength:** High compressive strength. It can be lathe, drilled and sanded like an metals after curing.

**Chemical Resistance:** Epoxy repair kits withstand chemicals such as seawater, acids, bases etc.

**Application:** Practical 500 g kits allows in-situ application. No need external energy etc.

**BEFORE**



**AFTER**







# PIPE REPAIR

## IMPREGNATED REPAIR TAPE + EPOXY STICK



10 cm x 3,5 m

IMPA CODE: 812363

5 cm x 1,5 m

IMPA CODE: 812364

7,5 cm x 2,5 m

IMPA CODE: 812365

5 cm x 3,5 m

IMPA CODE: 812362

Art. No:

Size:

20066-515	5 cm x 1,5 m
20066-535	5 cm x 3,5 m
20066-135	10 cm x 3,5 m
20066-725	7,5 cm x 2,5 m

The WINKEL PRO Pipe Repair Kit designed for emergency repairs on pipes & sealing joints. Additionally, it protects the applied surfaces against corrosion and prevents wear, thus providing long-lasting repairs. This kit can also be used in structural strengthening operations, helping to strengthen weak or damaged areas.

Additional benefits: Reinforcing thinning walls, abrasion protection, structural reinforcement, repairs in hard to reach areas, underwater repairs. Don't cause corrosion in repair area when it is applied.



“

*An  
Indispensable  
Part of the  
System*

”



**CRUSHER & MILL REPAIR PRODUCTS**  
**ACID, CHEMICAL RESISTANT**  
**COATING AND WEAR RESISTANT**  
**PRODUCTS**



**Miracle in the Box**

*Innovation not Imitation*

Please request the NORDBAK catalog separately.



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