

WINKEL®

**ENGINEERING
ADHESIVES**

**MAINTENANCE
REPAIR
PRODUCTS**



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 a light, metallic color, possibly aluminum or stainless steel. The background shows a clear sky with some light clouds, suggesting an outdoor setting. The overall impression is one of a large-scale, sophisticated industrial operation.

**AN
INDISPENSABLE
PART OF THE
SYSTEM**

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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 Group
Germany**



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



	2W22	2W43	2W70	2W72	2W77	2W90
Color	Purple	Blue	Green	Red	Red	Green
Strength	Low	Medium	High	High	High	High
Viscosity (25°C)	1000-2000 mPa-s	2500-4000 mPa-s	400-600 mPa-s	5000-10000 mPa-s	6000-8000 mPa-s	7-12 mPa-s
Fixture Time	5-15 min.	5-15 min.	< 15 min.	< 15 min.	< 15 min.	< 15 min.
Functional Strength	3-6 hr.	1 hr.	1 hr.	1-3 hr.	1 hr.	1 hr.
Full Cure	12-24 hr.	12-24 hr.	12-24 hr.	12-24 hr.	12-24 hr.	12-24 hr.
Recommended Ø Thread Size	M36	M36	M20	M36	M36	M36
Gap Filling	max. 0,25 mm	max. 0,30 mm	max. 0,20mm	max. 0,30mm	max. 0,20mm	max. 0,15mm
Breakaway Strength	5-11 Nm	12-25 Nm	21-44 Nm	20-37 Nm	25-40 Nm	25-44 Nm
Temperature Resistance	-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: 012751</p> <p>Art. No.: 20301, 250ml IMPA CODE: 012781</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: 012746</p> <p>Art. No.: 20304, 250ml IMPA CODE: 012782</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: 012748</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: 012755</p> <p>Art. No.: 20313, 250ml IMPA CODE: 012785</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: 012750</p> <p>Art. No.: 20316, 250ml IMPA CODE: 012786</p>	



	5W11	5W77	5W65	5W42	5W72
Color	White	Yellow	White	Brown	White
Strength	Low	Medium	Low	Medium	Low
Viscosity [25°C]	15000-30000 mPa-s	35000-80000 mPa-s	Appr. 300.000 mPa-s	400-600 mPa-s	15.000-30.000 mPa-s
Fixture Time	< 120 min.	< 15 min.	< 120 min.	15 min.	< 15 min.
Functional Strength	1-3 hr.	1 hr.	6 hr.	1 hr.	1 - 3 hr.
Full Cure	12-24 hr.	24 hr.	24 hr.	24 hr.	24 hr.
Recommended Ø Thread Size	M80	M80	-	M26	M80
Gap Filling	max. 0,50 mm	max. 0,25 mm	max. 0,50mm	max. 0,20mm	max. 0,25 mm
Breakaway Strength	5-15 Nm	8-20 Nm	2-8 Nm	8-18 Nm	5-15 Nm
Temperature Resistance	-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: 812748

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.: 20502, 50ml
Art. No.: 20503, 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: 812746
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.: 20408, 50ml
IMPA CODE: 812762
Art. No.: 20407, 250ml
IMPA CODE: 812764



	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	400-800 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: 815225
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: 812758

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



	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: 012035

Art. No.: 20501, 250ml
IMPA CODE: 012038

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: 012014

Art. No.: 20505, 250ml

Art. No.: 20504, 300ml
IMPA CODE: 012019

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: 012060

Art. No.: 20507, 250ml
IMPA CODE: 012061



	5 MINUTE CLEAR EPOXY	5 MINUTE STEEL EPOXY	PIPE REPAIR KIT	KNEAD STEEL EPOXY STICK	KNEAD WATER EPOXY STICK
Characteristic	Epoxy	Epoxy	Epoxy Stick Resin Band	Epoxy	Epoxy
Color	Clear	Grey	Epoxy Putty: Black Tape: Yellow	Grey	White
Mixture Ratio (by volume)	1:1	1:1	-	1:1	1:1
Open Time	5-7 min. (24 ml)	5-7 min. (24 ml)	3-5 min.	3-6 min.	3-6 min.
Fixture Time Full Cure	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.
Mixture Viscosity	7000 - 10000 cps	10.000 cps	-	Putty	Putty
Shore D Hardness ASTM D 2240	82	83	70	75-85	75-83
Tensile Strength	100 - 133 kg/cm ²	133 kg/cm ²	355 kg/cm ²	124 - 155 kg/cm ²	124 - 155 kg/cm ²
Temperature Resistance	-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)
Properties	<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: #12151</p> <p>Art. No.: 20087, 2x250 g IMPA CODE: #12287</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.: 20084, 24 ml IMPA CODE: #12281</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.: 20088-515, 5 cm x 1,5 m IMPA CODE: #12384</p> <p>Art. No.: 20088-535, 5 cm x 3,5 m IMPA CODE: #12382</p> <p>Art. No.: 20066-135, 10 cm x 3,5 m IMPA CODE: #12383</p> <p>Art. No.: 20088-725, 7,5 cm x 2,5 m IMPA CODE: #12385</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: #12181</p> <p>Art. No.: 20088, 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: #12183</p> <p>Art. No.: 20086, 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 ² PE - 7,0 N / mm ²
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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- Easy to use.
- Provides high strength even on surfaces without preliminary surface preparation.
- 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
Color	Colorless	Colorless	Black	Colorless	Colorless	Colorless
Fixture Time (NBR Rubber)	< 7 sec.	< 5	10 - 15 sec.	5-20 sec.	10-15 sec.	1- 3 sec.
Viscosity (cPs)	50000 - 90000 Thixotropic-Gel	34 - 44 mPa·s	300 - 1,000 mPa·s	1500 mPa·s	80 - 120 mPa·s	80 - 130 mPa·s
Fixture Time (Stainless Steel)	15-35 sec.	< 20	30-40 sec.	15-60 sec.	50-60 sec.	15 - 30 sec.
Density	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
Tensile Strength (N/mm²)	21	20	21	20	18	15 - 25
Shear Strength	21 N/mm ²	20 N/m ²	> 20 N/m ²	15-25 N/m ²	11-20 N/m ²	15-25 N/m ²
Gap Filling	0.02" / 0.5mm	0.004" / 0.10mm	0.008" / 0.20mm	0.008" / 0.15mm	0.006" / 0.15mm	0.006" / 0.15mm
Application Temperature	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: 812788

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



*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
Characteristic	Putty	Liquid	Putty	Putty	Putty	Putty	Putty
Color	Grey	Steel Grey	Dark Grey	Silver Grey	Dark Grey	Aluminum Grey	Grey
Open Time *Room Temperature	45 min.	25-30 min.	2-3 min.	25-30 min.	25-30 min.	25-30 min.	35-40 min.
Mixing Ratio By Weight/Volume	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
Shore D Hardness ASTM D2240-15	88	87	88	87	87	89	81
Shear Strength *ASTM D1002-10	1322 psi	1113 psi	1322 psi	1200 psi	1207 psi	863 psi	1845 psi
Compressive Strength *ASTM D695-15	16251 psi	16415 psi	16251 psi	15485 psi	16075 psi	16732 psi	8273 psi
Tensile Strength *ASTM D638-14	6900 psi	7290 psi	6900 psi	4120 psi	5020 psi	5670 psi	2960 psi
Operation Temperature	-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. <small>Art. No.: 20010, 500 g IMPA CODE: 812251</small>	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. <small>Art. No.: 20053, 500 g IMPA CODE: 812256</small>	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. <small>Art. No.: 20058, 500 g IMPA CODE: 812262</small>	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. <small>Art. No.: 20055, 500 g IMPA CODE: 812266</small>	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. <small>Art. No.: 20057, 500 g IMPA CODE: 812292</small>	Wear-resistant epoxy putty cures at room temperature. It is designed for the repair and protection of surfaces subjected to friction wear. <small>Art. No.: 20054, 500 g IMPA CODE: 812286</small>	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. <small>Art. No.: 20056, 500 g IMPA CODE: 812246</small>



	ADHESIVE SEALING	POLYURETHANE ADHESIVE SAUSAGE	GASKET SILICONE	AUTOMATIC CARTRIDGE SEAL	AUTOMATIC CARTRIDGE SEAL (GASKET PLUS)	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	-85°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	<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. : W180 251-B, 300ml Art. No. : W180 251-G, 300ml Art. No. : W180 251-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. : W180 256-B, 600ml Art. No. : W180 256-G, 600ml Art. No. : W180 256-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 508, 200 ml, Red</p>	<p>It is an oxime silicone-based liquid gasket with high oil tolerance & 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 50A-0, 200 ml, Black IMPA CODE: 812842 Art. No. : W200 50B-0, 200 ml, Grey IMPA CODE: 812842 Art. No. : W200 50C-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. : W180 255, 310ml IMPA CODE: 812845</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	<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 25A, 280ml IMPA CODE: 016295</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: 012802</p> <p>Art. No. : W160 250-B, 310 ml, White IMPA CODE: 012805</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: 015278</p> <p>Art. No. : W160 270-S, 290 ml, Black IMPA CODE: 015280</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 075, 80ml IMPA CODE: 012698</p> <p>Art. No. : W200 075-300, 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.

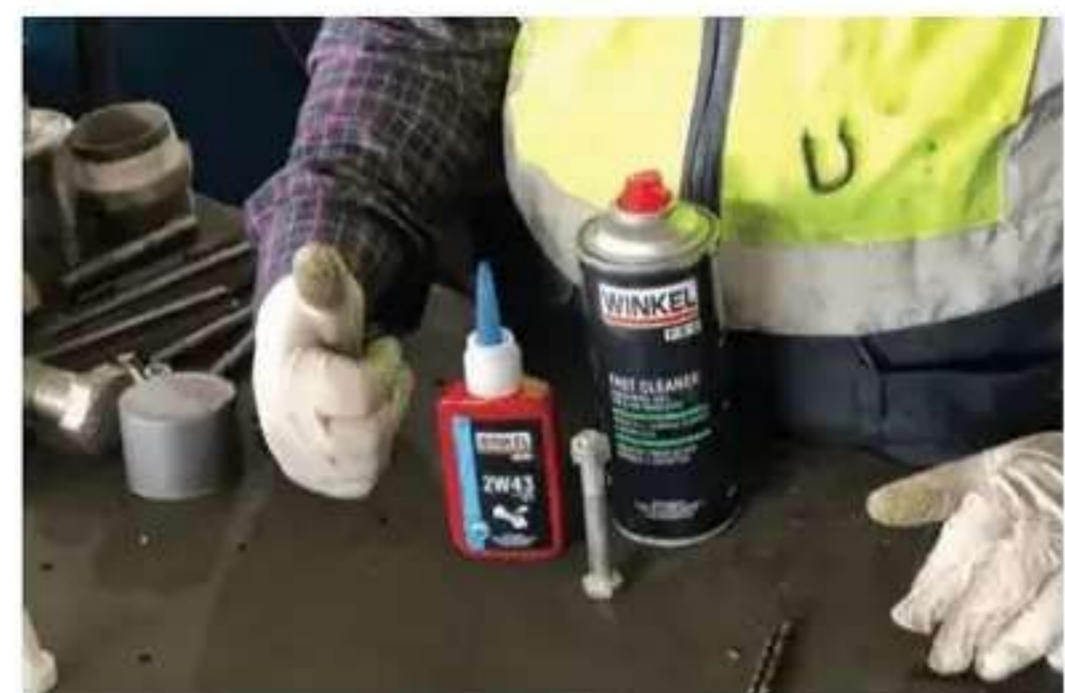
Art. No.: 20071, 400 ml
IMPA CODE: 812738



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





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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 Winkel 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) 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

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

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 (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

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 L
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



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: 450889 IMPA CODE: 450891

Color : Copper
 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: 450585

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

MoS₂ 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 MoS₂ 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 L
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 L
Box : Set
Art. No. : W140809-SET5

Size : 30 L
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	Size : 100g	Size : 25 kg
Box : 6 pcs	Box : 24 pcs	Box : -
Art. No. : W150 210-1	Art. No. : W150 210-100	Art. No. : W150 211-25
IMPA CODE: 450758	IMPA CODE: 450761	

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	Size : 25 kg
Box : 12 pcs	Box : 1 pcs
Art. No. : W150 212-1	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	Size : 16 kg
Box : 12 pcs	Box : 1 pcs
Art. No. : W150 206	Art. No. : W150 205-16
IMPA CODE: 450526	

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	Size : 18 kg
Box : 12 pcs	Box : 1 pcs
Art. No. : W150 204-1	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	Size : 16 kg
Box : 12 pcs	Box : 1 pcs
Art. No. : W150 218	Art. No. : W150 218-16
IMPA CODE: 450451	

HIGH TEMPERATURE GREASE 400°C



It significantly reduces friction with its rich MoS2 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	Size : 16 kg
Box : 12 pcs	Box : 1 pcs
Art. No. : W150 217	Art. No. : W150 217-16

HIGH SPEED GREASE W15



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



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



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



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



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.

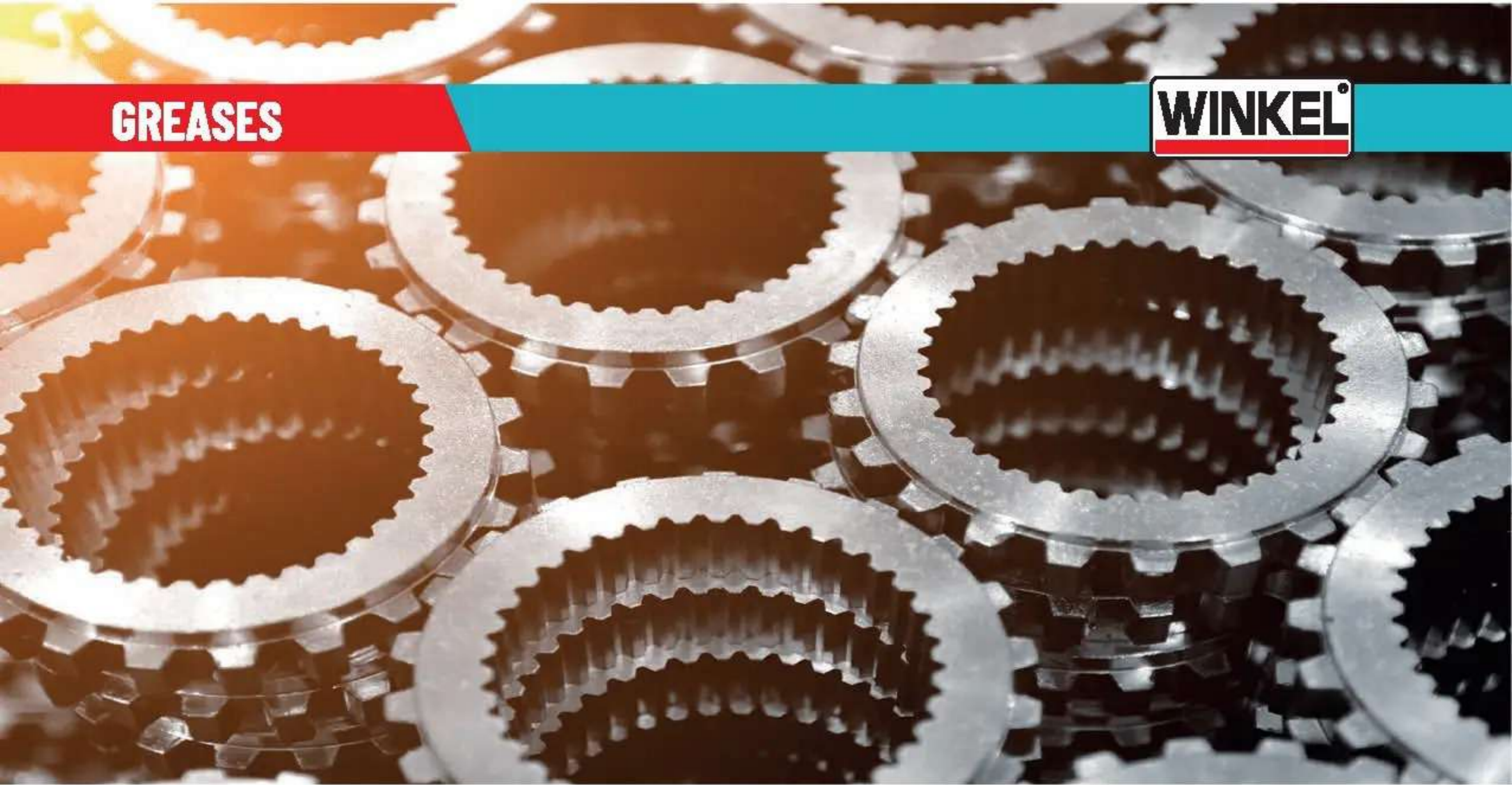
Size : 1 kg
Box : 12 pcs
Art. No. : W150 211

MULTI GREASE SPECIAL WHITE



Multi Greas 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



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



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

MOS₂ 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
IMPA CODE: 450578

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



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

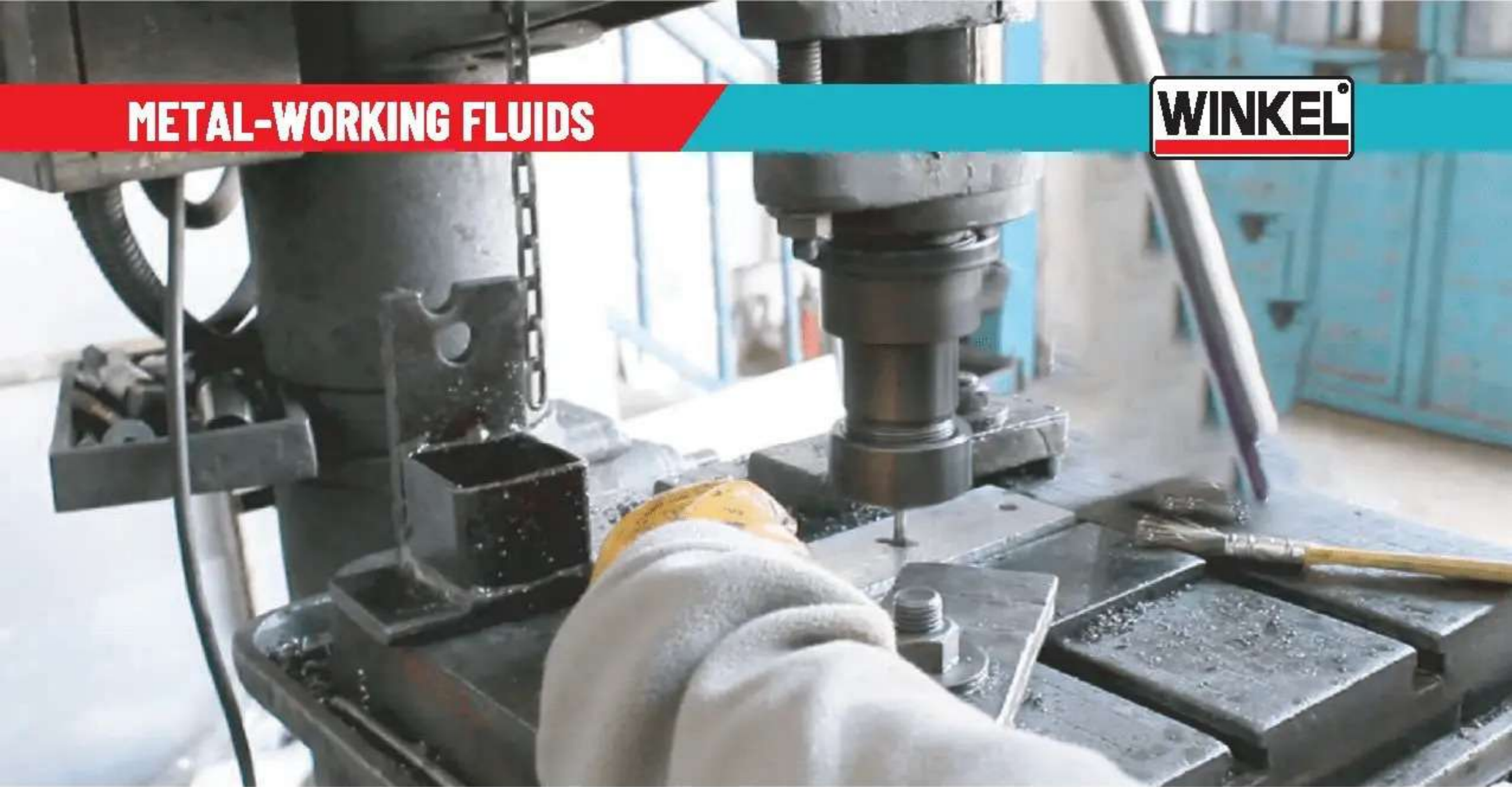
GENERAL PURPOSE CARTRIDGE GREASE



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





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 L
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 : 480 g
Box : 12 pcs
Art. No. : W150 214 - 460
IMPA CODE: 450116

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

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

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 L

Box : Gallon

Art. No. : W150 208 - 20

Size : 30 L

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 L

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 L

Box : Gallon

Art. No. : W150 226-30

STRONG RUST REMOVER MoS₂



It is a mineral oil based rust remover with excellent properties, it has superior rust penetration and high rust dissolving ability. MoS₂ 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

RUST REMOVER SPRAY H2



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

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

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 133
Color : White
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 134
Color : Green
IMPA CODE: 450844

SMOKE DETECTOR TEST SPRAY

NON-FLAMMABLE



Reliable and tested smoke detectors save lives. It can be checked only whether a smoke detector is actually working properly or not with the Non-Flammable Smoke Detector Test Spray. Smoke detectors have an integrated infrared light source emits light pulses every 5-10 seconds. If this light pulse is changed by smoke, detector releases acoustic warning signal. Product simulates smoke by spray mist and thus enables smoke detector systems to be checked regularly.

Size : 250 ml
Box : 12 pcs
Art. No. : W150 164
IMPA CODE: 331077

SMOKE DETECTOR TEST SPRAY



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 : 250 ml
Box : 12 pcs
Art. No. : W150 165
IMPA CODE: 331077

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
IMPA CODE: 450841

LEAK DETECTION SPRAY PLUS (-15°C +50°C)



Ideal for detecting leaks in pipes under air or gas pressure. Product forms bubbles immediately after spraying on leaking areas. It shows leaking paths and allows repairs in this way. Winkel Leak Detection Spray Plus does not harm gaskets such as plastic or metal, and is non-corrosive. Carbon dioxide propellant makes safer use with flammable gases. Can be applied even at -15°C.

Size : 400 ml
Box : 12 pcs
Art. No. : W150 156

OIL/GASOLINE FINDING PASTE



Winkel Oil/Gasoline Finding Paste used with oil gauging tape for measuring the presence of various types of oils. The colour of the paste will generally change from light red to dark red upon contact with oil. This paste will detect almost any kind of oil including mineral oil, vegetable oil, and animal oil, and solvents such as benzol, alcohol, acrylic solution, alkaline solution, and spirits.

Size : 100 g
Box : 100 pcs
Art. No. : W160 268
IMPA CODE: 650891

WATER FINDING PASTE



Winkel Water Finding Paste is a useful tool to detect the presence of water at the bottom of bilge, oil, diesel, petrol, gasoline, fuel-oil and kerosene tanks. Paste serves two purposes when conducting the echometer (test rod) test: it will detect the presence of water and determine of level of water. Hygroscopic, green coloured paste will turn pink when in contact with water, indicating the depth of the water in the tank. It shows no reaction to any solvent or fuel; hence does not contaminate the product being gauged. For fuels upto 5% Ethanol.

Product is applied by appropriate test rod.

Size : 100 g
Box : 100 pcs
Art. No. : W160 269
IMPA CODE: 650890

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
IMPA CODE: 795523

Size : 400 ml
Box : 12 pcs
Art. No. : W150 149
Color : Transparent
IMPA CODE: 795521

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
IMPA CODE: 471095

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



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

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

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

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 L
Box : Gallon
Art. No. : W140 616



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
 IMPA CODE: 812736

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



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 : 500 ml
Box : 12 pcs
Art. No. : W170 102
IMPA CODE: 450805

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 g
Box: 12 pcs
Art. No. : W150 302-200

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 L
Box : 9 pcs
Art. No. : W170 120-1
IMPA CODE: 551511

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

Size: 30 L
Box: Gallon
Art. No. : W170 120-30

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 g
Box: 36 pcs
Art. No. : W170 123



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

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 L
Box: Gallon
Art. No. : W140 605

FRESH AIR CONDITIONING SPRAY



Refresh the air-conditioning system of your car with the various WINKEL Fresh Air Conditioning Spray in Lemon. WINKEL Fresh Air Conditioning Spray is very easy to apply. Application: Before use, carefully read the directions on the packaging and act accordingly. The aerosol should have room temperature. Best processing temperature is -5 to +30°C. Before use, shake the aerosol. Start the engine and let the engine idle. Put both chairs and the back of the chairs in front position. Put the air circulation system on full power in the recirculation position. Place the WINKEL Fresh Air Conditioning Spray behind the chairs, activate the aerosol by once pressing the nozzle and close the door. After full evaporation of the WINKEL Fresh Air Conditioning Spray, the engine should idle for some minutes. Switch off the engine and ventilate the vehicle for approximately 15 minutes.

Size : 150 ml
Box : 12 pcs
Art. No. : W130 100

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 L
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 L
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 L
Box : Gallon
Art. No. : W140 612-30

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 L
Box : Gallon
Art. No. : W140 600

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 L
Box : 6 pcs
Art. No. : W140 628

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 L
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 L
Box : 6 pcs
Art. No. : W140 626

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 L
Box : 6 pcs
Art. No. : W140 598

Size : 30 L
Box : 1 pcs
Art. No. : W140 599

IMPA CODE: 550285



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 L
Box : 1 pcs
Art. No. : W800 655

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 pcs
Art. No. : W140 608
IMPA CODE: 550282

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 pcs
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.
	RAL 1007 DAFFODIL YELLOW W1007		RAL 5015 SKY BLUE W5015		RAL 9007 GREY ALUMINUM W9007
	RAL 1028 MELON YELLOW W1028		RAL 5017 TRAFFIC BLUE W5017		RAL 9010 PURE WHITE W9010G
	RAL 3000 FLAME RED W3000		RAL 6005 MOSS GREEN W6005		RAL 9010 WHITE MATTE W9010M
	RAL 3001 SIGNAL RED W3001		RAL 7001 SILVER GREY W7001		RAL 9016 TRAFFIC WHITE W9016
	RAL 3002 CARMINE RED W3002		RAL 7016 ANTHRACITE GREY W7016		HIGH-TEMP RESIST BLACK W9005HT
	RAL 3020 TRAFFIC RED W3020		RAL 9005 JET BLACK W9005G		HIGH-TEMP RESIST GREY W9006HT
	RAL 5010 GENTIAN BLUE W5010		RAL 9005 BLACK MATTE W9005M		COPPER W140 442M
	RAL 5012 LIGHT BLUE W5012		RAL 9006 WHITE ALUMINUM W9006		GOLD W140 450G
					METALLIC CHROME W140 448M

For different RAL codes, please proceed to contact us at 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.

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

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

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

7,5 cm x 2,5 m

IMPA CODE: 812365

5 cm x 1,5 m

IMPA CODE: 812364

5 cm x 3,5 m

IMPA CODE: 812362

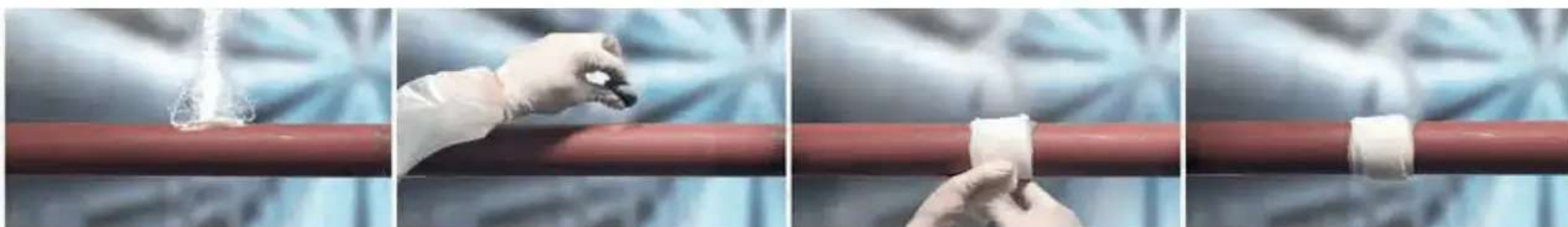
Art. No:

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

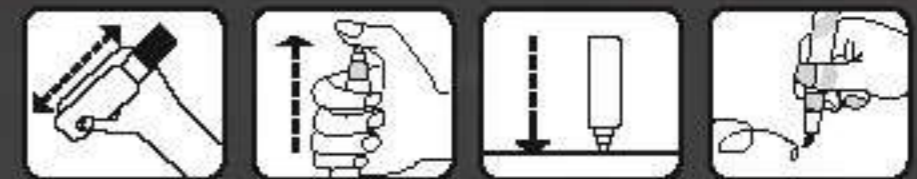
The WINKEL PRO Pipe Repair Kit designed for emergency repairs on pipes & sealing joints. Additionally, it protects the applied surfaces against corrosion and prevents wear, thus providing long-lasting repairs. This kit can also be used in structural strengthening operations, helping to strengthen weak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

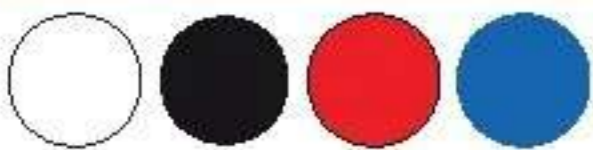




PAIN^T MARKER 444



Colors available



Winkel Paint Marker 444 odorless series are inks formulated with organic, inorganic and metallic pigments. Valve actioned pen tip can write smoothly on any surface. It has great covering and water resistance. It does not contain aromatic/chlorinated solvents.

- Xylene-free
- Durable acrylic valve action tip resists wear to provide long marking life
- Durable metal body and clip-on cap make pen to store easily.





CRUSHER & MILL REPAIR PRODUCTS

**ACID, CHEMICAL RESISTANT
COATING AND WEAR RESISTANT
PRODUCTS**

Nordbak®

Miracle in the Box

Innovation not Imitation

Please request the NORDBAK catalog separately.



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