

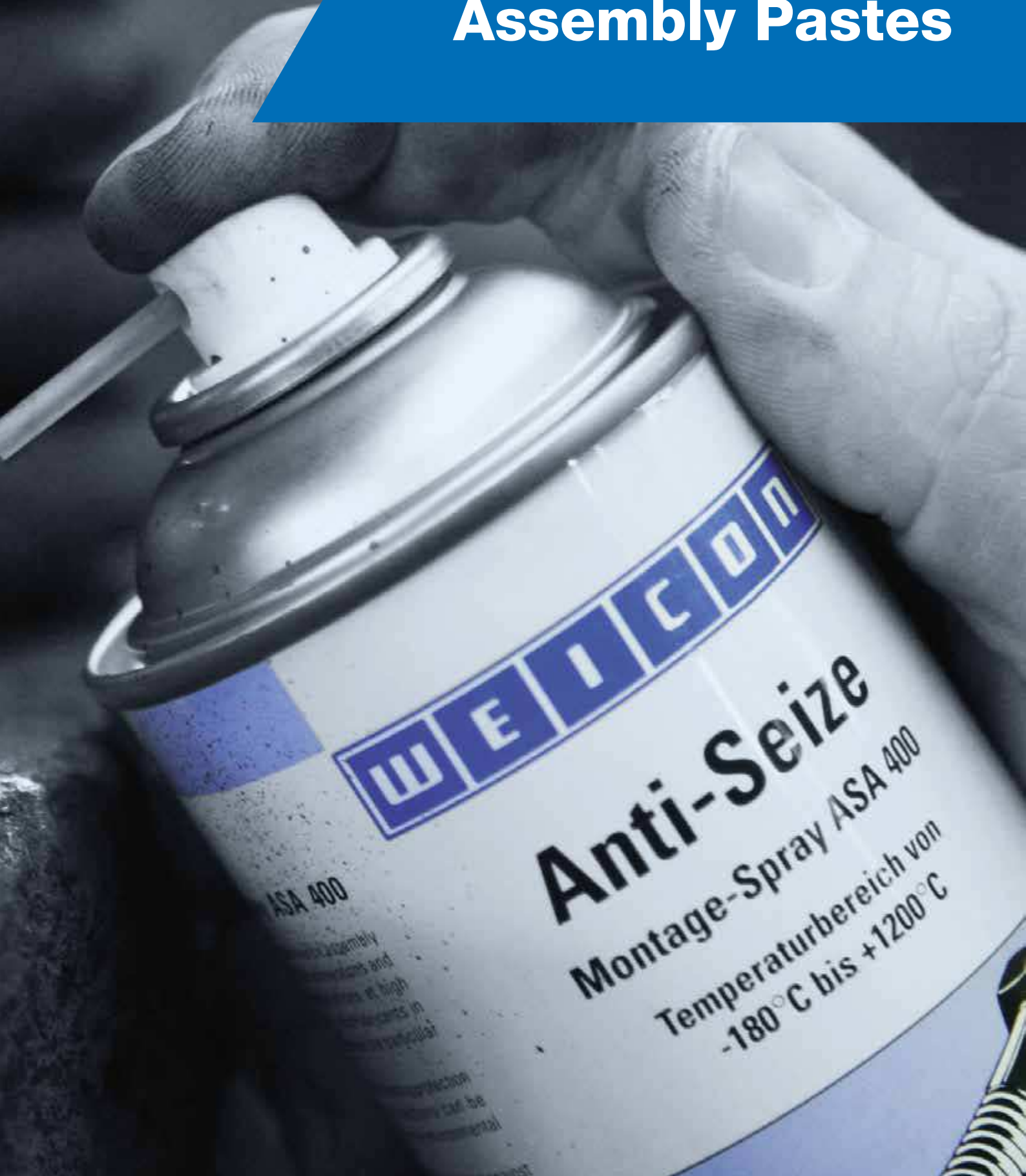
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Anti-Seize

Assembly Pastes



Anti-Seize

All kinds of influencing factors, such as moisture and friction, lead to damage due to corrosion, seizure, and wear on machines and installations.

Extensive repair and maintenance work at considerable cost are the result.

Especially under critical conditions of application, such as:

- High operation temperatures
- High pressure loads
- Outdoor weather conditions
- Aggressive chemicals
- The influence of other media

WEICON Anti-Seize assembly pastes are especially developed for these requirements. They are used as protecting and separating agents, as well as lubricants, for highly stressed parts, especially at high temperatures.



Anti-Seize

Assembly Pastes

Optimally balanced solids contents as well as selected additives permit a wide range of applications, especially in this area.

Conventional separating agents or lubricants such as mineral oils and greases often cannot provide sufficient lubrication and protection in difficult industrial environments.

The basic components in WEICON Anti-Seize are made of synthetic oils, which have a considerably lower sulphur content than products containing mineral oil. A residue-free vaporisation of the oil at temperatures between +200°C (+392°F) and +250°C (+482°F) is thus possible. This is particularly important in the case of stainless steels (e.g. for VA material) to prevent stress-corrosion cracking.

The safe protection of work pieces and structures made of steel and other metals is thus absolutely necessary for the rational and economic operation of technical installations.



Due to the special formulation and the very fine grinding of the solids contained in WEICON Anti-Seize, irregularities in the surface being protected are completely filled – even to a layer thickness of only 12 µm. Only a perfectly sealed surface guarantees a reliable protection against corrosion. An additional sealing effect thus results for special applications, such as flange connections.

WEICON Anti-Seize provides protection against the following:

- Corrosion – seizure - wear
- Stick-slip phenomena
- Oxidation and fretting corrosion
- Electrolytic reactions (“cold welding”)

WEICON Anti-Seize is free of sulphurous additives and halogens, well-adherent and abrasion-proof, and resistant against hot, cold, and salt water. The extremely low friction coefficient also permits easy disassembly from machines and installations.

In addition, WEICON Anti-Seize assembly pastes are excellent lubricants for statically high-stressed parts and for slowly rotating installations, as long as corresponding relubrication intervals are observed.

With its dual function as a lubricant and corrosion protection agent, WEICON Anti-Seize thus becomes a rationalisation factor, both in terms of saving time and reducing costs.

WEICON Anti-Seize is used sparingly. At a layer thickness of 0,01 mm, 1 kg suffices to cover a surface area of approximately 45 m².

Three product variants are available for various areas of application.

Anti-Seize
Anti-Seize „High Tech“
Copper Paste



Anti-Seize

Reliable protection against corrosion, seizing and cold welding

WEICON Anti-Seize is used as a protecting, separating and lubricating agent for highly stressed parts. Ideally compatible solid contents and selected additives enable a wide range of usage.

Anti-Seize protects against corrosion, seizure and wear, stick-slip phenomena, oxidation, fretting corrosion and electrolytic reactions („cold welding“).



Technical Data

Basic oil	Synthetic oil mixture
Colour	anthracite
OFW device coefficient of friction	0,13
Coefficient of friction total	0,14 μ
Coefficient of friction thread	0,13 μ
Coefficient of friction on upside down	0,15 μ
VKA-Test (DIN 51350) goods load	4200 N
VKA-Test (DIN 51350) welding load	4400 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,5 mm
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Sulphur content (DIN 51400)	< 0,1%
Water resistance (DIN 51807)	0 - 90
Temperature resistance	-180 to +1.200°C (-292 to +2.192°F)
Pressure load	230 N/mm ² (33.400 psi)
Density at +20°C (+68°F) (DIN 51757)	1,16 g/cm ³
Salt spray test (DIN 50017)	> 170 h
Thermal conductivity	0,3 W/m·K
Dielectric strength	0,47 kV/mm
Specific resistance	1,2 x 10 ¹⁵ Ohm/cm

10 g ✓ 26000001 Syringe	30 g ✓ 26000003 Pen	120 g ✓ 26000012 Brush top can	200 ml ✓ 26000200 Press pack
400 g ✓ 26000040 Cartridge	450 g ✓ 26000045 Can	500 g ✓ 26000050 Brush top can	1,0 kg ✓ 26000100 Can
1,8 kg ✓ 26000180 Bucket	5,0 kg ✓ 26000500 Bucket	10,0 kg ✓ 26000910 Bucket	20,0 kg ✓ 26000920 Bucket
100 ml ✓ 27000100 Spray	400 ml ✓ 27000400 Spray		

Assembly Pastes



Clearance certificate for the application in the food industry, according to the USDA H1

Anti-Seize „High-Tech“

Metal-free, NSF approval

Anti Seize „High-Tech“ is high temperature resistant, has excellent separating characteristics, is metal-free, neutral to materials and has an NSF approval.

Anti-Seize „High-Tech“ is particularly suitable when metal-containing pastes can cause electrolytic reactions, when nickel-containing products should or may not be used due to health reasons and when dark metal-containing products should or may not be used for optical reasons.



Technical Data

Basic oil	Medicinal oil
Colour	white
OFW device coefficient of friction	0,10 to 0,13
Coefficient of friction total	0,13 μ
Coefficient of friction thread	0,11 μ
Coefficient of friction on upside down	0,14 μ
VKA-Test (DIN 51350) goods load	3600 N
VKA-Test (DIN 51350) welding load	3800 N
VKA-Test (DIN 51350) Spherical cap value (1 Min/1000)	0,7 mm
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Sulphur content (DIN 51400)	< 0,1%
Water resistance (DIN 51807)	1 - 90
Temperature resistance	-40 to +1.400°C (-40 to +2.552°F)
Pressure load	230 N/mm ² (33.400 psi)
Density at +20°C (+68°F) (DIN 51757)	1,42 g/cm ³
Salt spray test (DIN 50017)	> 170 h
Thermal conductivity	0,7 W/m·K
Dielectric strength	0,40 kV/mm
Specific resistance	1,0 x 10 ¹⁵ Ohm/cm

30 g	120 g	400 g	450 g
26100003 Pen	26100012 Brush top can	26100040 Cartridge	26100045 Can
500 g	1,0 kg	1,8 kg	5,0 kg
26100050 Brush top can	26100100 Can	26100180 Bucket	26100500 Bucket
10,0 kg	20,0 kg	400 ml	
26100910 Bucket	26100920 Bucket	27050400 Spray	





Adhesives / Sealants

Technical Sprays

Technical Liquids

Assembly Pastes

Lubricants

Other

WEICON Anti-Seize products and their behaviour vis-à-vis sealing materials (elastomers)

	Anti-Seize	Anti-Seize "High-Tech"
ACM - Acrylate rubber	++	++
CR - Chloroprene rubber	+	+
CSM - Chlorosulfonated PE rubber	++	++
EPDM - Ethylene propylene diene rubber	--	--
FKM - Fluorocautchoc	++	++
NBR - Nitrile butadiene rubber	++	++
NR - Natural rubber	--	--
SBR - Styrene butadiene rubber	--	--
SQM/MVQ - Silicone rubber	++	++

++ resistant + resistant to a limited extent 0 not tested, preliminary trials or resistance tests are recommended -- not resistant

WEICON Anti-Seize products and their behaviour vis-à-vis sealing materials (elastomers)

	Anti-Seize	Anti-Seize "High-Tech"
ABS - ABS copolymeride	++	++
CA - Cellulose acetate	++	++
EPS - Expanded polystyrene	++	++
PA - Polyamide	++	++
PC - Polycarbonate	--	--
PE - Polyethylene	++	++
PE-UHMW - Polyethylene with ultra high molar weight	++	++
PE-LD - Polyethylene with low density	+	+
PET - Polyethyleneterephthalate	++	++
POM - Polyoxymethylene	++	++
PP - Polypropylene	++	++
PPO - Polyphenylene oxide	++	++
PS - Polystyrene	+	+
PTFE - Polytetrafluor ethylene	++	++
PUR - Polyurethane	+	+
PVC - Polyvinylchloride	++	++

++ resistant + resistant to a limited extent 0 not tested, preliminary trials or resistance tests are recommended -- not resistant

The specified resistance levels are based on laboratory tests and literature notices. A guarantee cannot be provided due to the large number of raw materials used on the one hand and the complex chemical and morphological structure of the polymers on the other. In critical application cases, we recommend that you carry out tests and/or consult with our application technology department.



Anti-Seize

Assembly Pastes

Copper Paste

Protecting, separating and lubricating agent for highly stressed parts in high-temperature applications

Technical Data

Consistency assignment (DIN 51818)	NLGI-Class 1
Colour	copper
Thickener	aluminium complex soap
Basic oil	mineral oil
Solid lubricant	copper / graphite
Coefficient of friction (acc. to DIN 946)	0,11 - 0,13
Coefficient of friction total	0,12 µ
Coefficient of friction thread	0,11 µ
Coefficient of friction on upside down	0,13 µ
VKA-Test (DIN 51350) / Welding load	3200 N
Density	1,1 g/cm ³
Kinematic viscosity basic oil (+40°C/+104°F DIN 51562)	180 mm ² /s
Drop point (IP 396)	+180°C (+356°F)
Worked penetration (DIN ISO 2137)	310 to 340 1/10 mm
Temperature resistance	-20 to +1.100°C (-4 to +2.012°F)



Copper Paste is corrosion resistant and strong. It contains no sulphur, lead or nickel.

WEICON Copper Paste is used as an assembly lubricant for all kinds of threaded joints and sliding surfaces. It forms an effective lubricating and separating film which protects the functional surfaces on plug-in tools, wear bushings, screws, and all kinds of threaded, plug-in and bayonet joints against corrosion and seizing.

It can be used to reduce vibration on brake blocks and guides, brake cams and pins, car and truck battery terminals and other electrical connections, wheel bolts and nuts, and on wear bushings at electrical, compressed air and hydraulic hammers. The product can be used in many industrial applications.



30 g ✓ 26200003 Pen	120 g ✓ 26200012 Brush top can	450 g ✓ 26200045 Can
200 ml ✓ 26200200 Press pack	500 g ✓ 26200050 Brush top can	1,0 kg ✓ 26200100 Can
10,0 kg ✓ 26200910 Bucket	400 ml ✓ 27200400 Spray	

Packaging

	10 g Syringe	30 g Pen	120 g Brush top can	200 ml Press pack	400 g Cartridge	450 g Can	500 g Brush top can	1,0 kg Can	1,8 kg Bucket	5,0 kg Bucket	10,0 kg Bucket	20,0 kg Bucket	100 ml Spray	400 ml Spray
Anti-Seize	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anti-Seize "High Tech"	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	-	✓
Copper Paste	-	✓	✓	✓	-	✓	✓	✓	-	-	✓	-	-	✓