

# Anti-Seize Nickel Assembly Pastes



## Assembly paste for extreme conditions

The assembly paste was developed to resist extreme conditions. It has high adhesive strength, is water-repellent and resistant to fresh, salt and hot water as well as steam. The high amount of nickel components also provides protection against corroding and corrosive solvents, which are contained in diluted hydrochloric acid, sulphur or nitric acid, among others. WEICON Anti-Seize Nickel can be applied at a large temperature range between -30 °C and 1,450 °C. Anti-Seize Nickel serves as corrosion protection and high-performance assembly paste for screw connections and assembly parts exposed to extremely high static and dynamic stresses as well as for slowly rotating installations in the high temperature range. The paste protects against corrosion, seizing, wear, stick-slip effects, oxidation and friction corrosion as well as electrolytic reactions, the so-called cold-welding. Anti-Seize Nickel can be used on seals, valves, screw connections, gear wheels, bearings, jets, conveyor belts, studs, tools or cylinders.

## Assembly Pastes

### Technical Data

Base	Synthetic oil
Colour	anthracite
Density	(+20°C) DIN 51757
Four ball weld test weld load	1,3 g/cm <sup>3</sup>
Four ball weld test calotte value	2.000 N
Cone penetration	DIN 51350
Water resistance	DIN 51350 (1min/1000N)
Heat capacity	0,6 mm
Thermal conductivity	DIN ISO 2137
Dielectric strength	310 - 340 1/10 mm
Salt spray test	DIN 51807
Sulphur content	DIN EN ISO 22007-4
Compressive strength	1 - 90
Temperature conductivity	1,493 J/(g·K)
Temperature resistance	0,582 W/m·K
Minimum shelf life	DIN 60243-1 (20°C)
	1,1 kV/mm
	> 170 h
	<0,1 %
	230 MPa
	0,303 mm <sup>2</sup> /s
	-30°C to 1,450°C
	at room temperature
	24 mon.

### Friction values

Friction values steel-blank (M10   10.9)	
Total friction coefficient	0,12 (min. 0,11)
Friction coefficients threads	0,14 (min. 0,12)
Friction coefficient head	0,11 (min. 0,10)
Friction value V4A (M10   A4 70)	
Total friction coefficient	0,15 (min. 0,13)
Friction coefficients threads	0,20 (min. 0,16)
Friction coefficient head	0,11 (min. 0,10)
Friction value steel electro-galvanized (M10   10.9)	
Total friction coefficient	0,11 (min. 0,10)
Friction coefficient threads	0,13 (min. 0,11)
Friction coefficient head	0,10 (min. 0,08)

### Approvals / Guidelines

ISSA Code	53.402.28
IMPA Code	450843
MIL-Spec	complies with
	MIL-T-83523

### Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets ([www.weicon.com](http://www.weicon.com)) must be observed.

### Surface Pre-Treatment

First clean the surface to be lubricated with WEICON Cleaner S, depending on the degree of soiling. If screws have already been used, process with the wire brush and clean with WEICON Cleaner S.

### Application

Clean and degrease surfaces with WEICON Cleaner Spray S. Apply a good quantity of assembly paste with a brush, cloth or sponge. On threads it is important that assembly paste is applied down to the thread root and up to the bottom of the screw head to ensure a good sealing effect. Assembly paste must not be mixed with greases or oils to avoid changes in the material characteristics. Assembly paste does not replace oil or grease lubrication.

### Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

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### Storage

Keep tightly closed in original packaging. Protect from direct sunlight. The storage temperature must not exceed +50 °C. Keep container in a cool, well-ventilated place. Store in a dry place.

### Available sizes

- 10000194 Anti-Seize Nickel Assembly Pastes, 120 g, anthracite
- 10000185 Anti-Seize Nickel Assembly Pastes, 0,4 kg, anthracite
- 10000186 Anti-Seize Nickel Assembly Pastes, 0,45 kg, anthracite
- 10047560 Anti-Seize Nickel Assembly Pastes, 0,5 kg, anthracite
- 10000192 Anti-Seize Nickel Assembly Pastes, 1 kg, anthracite
- 10000187 Anti-Seize Nickel Assembly Pastes, 1,8 kg, anthracite

### Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm² x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

To the product detail page:



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WEICON Middle East L.L.C.  
United Arab Emirates  
phone +971 4 880 25 05  
info@weicon.ae

WEICON Inc.  
Canada  
phone +1 877 620 8889  
info@weicon.ca

WEICON Czech Republic s.r.o.  
Czech Republic  
phone +42 (0) 417 533 013  
info@weicon.cz

WEICON Ibérica S.L.  
Spain  
phone +34 (0) 914 7997 34  
info@weicon.es

WEICON GmbH & Co. KG  
(Headquarters) Germany  
phone +49 (0) 251 9322 0  
info@weicon.de

WEICON Italia S.r.l.  
Italy  
phone +39 (0) 010 2924 871  
info@weicon.it

WEICON Romania SRL  
Romania  
phone +40 (0) 3 65 730 763  
office@weicon.com

WEICON SA (Pty) Ltd  
South Africa  
phone +27 (0) 21 709 0088  
info@weicon.co.za

WEICON South East Asia Pte Ltd  
Singapore  
Phone (+65) 6710 7671  
info@weicon.com.sg

WEICON Kimya Sanayi Tic. Ltd. Şti.  
Türkiye  
phone +90 (0) 212 465 33 65  
info@weicon.com.tr