Anti-Seize
Assembly Pastes

Anti-Seize High-Tech Assembly Paste



NSF Nonfood Compounds Program Listed **H1** Registration **141636**

metal-free | NSF registration

Anti-Seize High-Tech is used as corrosion protection and high-performance Assembly-Paste for statically and dynamically extremely stressed screw connections and assembly parts as well as for low-speed rotating installations at high temperatures. The exceptionally good selection is effective especially for high-alloyed steels and for the use of different metals. Anti-Seize High-Tech has a NSF registration, an excellent bonding strength, is water-repellent and resistant against fresh, sea and hot water, water vapour, alkaline and slightly sour media. Another remarkable feature is the high-pressure absorption capacity (<230 N/mm2). Anti- Seize High-Tech is especially recommended for assembly works if the use of metal-containing assembly sprays is not wanted for optical reasons, if the use of nickelcontaining products is prohibited for health reasons or if coppercontaining products are prohibited for electro-chemical reasons. Anti-Seize High-Tech is free of sulphurous additives and halogens.

* except for a maximum content of 0.1%

Characteristics:

- prevents corrosion, fretting corrosion, oxidation

- prevents seizure, cold welding, wear and abrasion

- reduces friction and stick-slip

- provides good sealing and shut-off properties against liquid media

Characteristics		
Base		Medicinal white oil
Silicone-free		yes
Colour		white
Minimum shelf life	at room temperature	24 mon.
Physical properties		
Density	(+20°C) DIN 51757	1,3 ± 0,1 g/cm³
Cone penetration	DIN ISO 2137	310 - 340 1/10 mm
Thermal parameters		
Temperature resistance		-60 °C to +1,400 °C
Heat capacity	DIN EN ISO 22007-4	1,574 J/(g·K)
Thermal conductivity		0,675 W/m·K
Temperature conductivity		0,302 mm²/s
Mechanical properties after curing		
Water resistance	DIN 51807	1 - 90
Salt spray test	DIN EN ISO 9227	> 170 h
Four ball weld test property load	DIN 51350	3600 N
Four ball weld test weld load	DIN 51350	3800 N
Four ball weld test calotte value	DIN 51350 (1min/1000N)	0,7 mm
Compressive strength		230 MPa
Electrochemical parameters		
Dielectric strength	DIN EN 60243-1 (20°C)	6,3 kV/mm
Resistance	DIN EN 62631-3-1	1,0 x 10¹⁵ Ω·cm
Sulphur content	DIN 51400	<0,1 %
Friction values		
Friction values steel-blank (M10 | 10.9)		
Total friction coefficient		0,11 (min. 0,10)
Friction coefficients threads		0,12 (min. 0,10)
Friction coefficient head		0,10 (min. 0,09)
Friction value V4A (M10 | A4 70)		
Total friction coefficient		0,15 (min. 0,14)
Friction coefficients threads		0,15 (min. 0,13)
Friction coefficient head		0,15 (min. 0,14)
Friction value steel electro-galvanized (M10 | 10.9)		
Total friction coefficient		0,08 (min. 0,07)
Friction coefficient threads		0,09 (min. 0,08)
Friction coefficient head		0,07 (min. 0,06)
Approvals / Guidelines		
NSF		H1 (FDA 21 CFR)
ISSA Code		53.402.81/82/83/84/85/86/87/88/89
IMPA Code		450882/83/84/85/86/87
MIL-Spec	complies with	MIL-PRF-907H / MIL-A-13881C

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) must be observed.

Surface pretreatment

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.

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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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 screwhead 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.

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

10000193	Anti-Seize High-Tech Assembly Paste, 120 g, white
10000195	Anti-Seize High-Tech Assembly Paste, 0,4 kg, white
10031277	Anti-Seize High-Tech Assembly Paste, 5 g, white
10030351	Anti-Seize High-Tech Assembly Paste, 0,5 kg, white
10000197	Anti-Seize High-Tech Assembly Paste, 1 kg, white
10015179	Anti-Seize High-Tech Assembly Paste, 30 g, white
10000204	Anti-Seize High-Tech Assembly Paste, 10 kg, white
10047469	Anti-Seize High-Tech Assembly Paste, 85 g, white
10000196	Anti-Seize High-Tech Assembly Paste, 0,45 kg, white
10000202	Anti-Seize High-Tech Assembly Paste, 5 kg, white
10000199	Anti-Seize High-Tech Assembly Paste, 1,8 kg, white
10000205	Anti-Seize High-Tech Assembly Paste, 20 kg, white

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/mm^2 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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