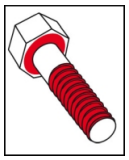
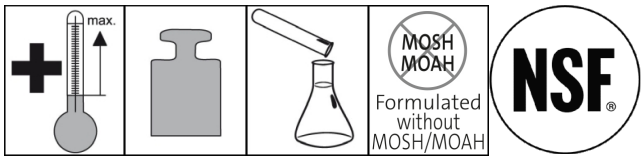


PRODUCT INFORMATION

a product brand of KLÜBER LUBRICATION

OKS 210
High-Temperature Screw Paste, for high-alloy steels





Description

Special, ultra-pure, metal-free high-temperature paste to minimise chromium(VI) formation on bolted connections with high-alloy steels which are exposed to high temperatures or corrosive or chemically aggressive influences.

Applications

- Assembly lubrication of high-alloy bolted connections exposed to high temperatures, or corrosive or chemically aggressive influences
- Lubrication of materials prone to galling or corroding, such as V2A, V4A and other high-alloy steels
- Such as those on gas and steam turbines in the power station sector
- In combustion engines
- Screwed connections on pipe fittings, flange joints and fittings in superheated steam lines
- Screwed connections on exhaust pipes, in combustion chambers and similar

Advantages and benefits

- Minimises chromium(VI) forming on steels with a chromium content when exposed to high temperatures
- Less than 500 ppm of flourides, chlorides and sulphides
- Prevents galling of high-alloy bolted connections during assembly
- Allows non-destructive dismantling after a long period of use and under aggressive operating conditions
- Good water resistance
- Wide operating temperature range
- Constant coefficient of friction
- NSF H1 registered
- Formulated without MOSH/MOAH

Branches

- Catering equipment and food processing technology
- Iron and steel industry
- Rail vehicle technology
- Plant and machine (tool) engineering
- Chemical industry
- Municipal services
- Logistics
- Paper and packaging industry
- Shipbuilding and marine technology
- Rubber and plastic processing
- Glass and foundry industry

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Application tips

For best adhesion, clean the threads and sliding surfaces from dirt and other lubricants. Best way is to clean mechanically first and then with OKS 2610 or OKS 2611 universal cleaner. Apply paste evenly in sufficient amount onto head/nut support and thread or onto the sliding areas with brush, spatula, etc. Paste also takes over sealing properties. Do not use paste instead of grease and mix with appropriate lubricants only.

Packaging

- 150 g Dispenser
- 250 g Brush tin
- 1 kg Can
- 5 kg Hobbock
- 25 kg Hobbock

Technical data

	Standard	Conditions	Unit	Value
Main components				
base oil				synthetic oil
thickener				Mix of different thickeners
solid lubricants				graphite
solid lubricants				Boron nitride
solid lubricants				other solid lubricants
Application related technical data				
drop point	DIN ISO 2176			without
consistency	DIN 51 818	DIN ISO 2137	NLGI grade	1
oil separation	DIN 51 817	7d/40°C	percent in weight	<3
lower operating temperature			°C	-40
upper operating temperature	DIN 51 821-2	separation	°C	1000
colour				grey
density	DIN EN ISO 3838	at 20°C	g/cm³	1.02
water resistance	DIN 51 807-1	3h/90°C	Degree	0-90
Total friction coefficient (µ)	DIN EN ISO 16 047	screw ISO 4017 M10x55-8.8 black-oxide, nut ISO 4032 M10-10 black-oxide		0.13
Total friction coefficient (µ)	DIN EN ISO 16 047	Screw ISO 4017 A4 M10x55-70, Nut ISO 4032 A4 M10-70		0.15
breakaway torque	DIN 267-27	M10 A4, 40 Nm, 400 °C, 100 h		< 2,5 x tightening torque
Properties and approvals				
UFI				8G9H-F0QW-800Q-W0SD
approval for food processing technology				NSF H1, Reg.-Nr. 169483

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