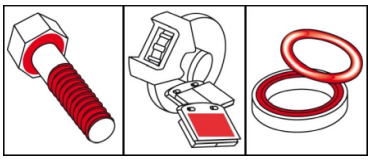
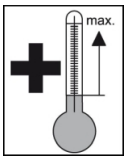
a product brand of KLÜBER LUBRICATION

OKS 235
Aluminium Paste, Anti-Seize Paste





Description

Aluminium paste for assembling screw and bolt threaded connections that are subjected to high temperatures and corrosive influences.

Applications

- Assembly lubrication of machine parts, screw connections, fittings, flange and plug-in connections, guides, sliding and sealing surfaces of ovens, boilers, burners, motors, engines subject to high-temperature conditions
- Separating paste

Branches

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

Advantages and benefits

- Excellently suited for preventing seizing and burning together
- Highly effective due to outstanding separating action and pressure absorption
- Good protection against ingress of splashing and condensed water
- Free of heavy metal compounds
- Good corrosion protection
- Excellent water resistance
- Wide operating temperature range
- Optimum ratio of screw tightening torque to achievable pre-tension
- Also available as spray version OKS 2351

Application tips

For best adhesion, clean contamination and other lubricants from thread and slide surfaces. Best way is to clean mechanically first (for example, with a wire brush) and then with OKS 2610/OKS 2611 universal cleaning agent. Apply sufficient OKS 235 evenly to the head or nut contact surface and to the thread by using a brush, spatula, etc. Do not use paste instead of grease and mix only with suitable lubricants.

Packaging

- 250 ml Brush tin
- 1 kg Can
- 5 kg Hobbock
- 25 kg Hobbock

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PRODUCT INFORMATION

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Technical data

	Standard	Conditions	Unit	Value
Main components				
base oil				mineral oil
thickener				organic/inorganic
solid lubricants				aluminium powder
solid lubricants				other solid lubricants
Application related technical data				
drop point	DIN ISO 2176		°C	110
consistency	DIN 51 818	DIN ISO 2137	NLGI grade	0-1
unworked penetration	DIN ISO 2137	no shear stress	0.1 mm	290-330
oil separation	DIN 51 817	7d/40°C	percent in weight	< 4.0
lower operating temperature			°C	-30
upper operating temperature		lubrication	°C	110
upper operating temperature		separation	°C	1,100
colour				silver
density	DIN EN ISO 3838	at 20°C	g/cm³	0.92
salt spray test	DIN EN ISO 9227	layer thickness 30 µm	h	> 400
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
breakaway torque	DIN 267-27	M10 A2, 40 Nm, 400 °C, 100 h	Nm	< 2,7 x tightening torque

Klüber Lubrication München GmbH & Co. KG
Geisenhausenerstraße 7 / 81379 München / Germany / phone +49 89 7876-0

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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