Aluminium based anti-seize

Description

MOLYSLIP ALUMSLIP is a high temperature anti-seize compound formulated to protect fasteners from seizure induced by extremes of temperature, pressure and corrosion. The mineral oil base fluid contains micronized particles of metal and non-metal fillers to provide excellent lubrication and protection to threads and components.

MOLYSLIP ALUMSLIP is resistant to temperatures up to 650°C and it effectively protects against chemical corrosion and atmospheric oxidation. Free of copper, lead, sulphides, fluorides and chlorides ALUMSLIP is suitable for use on all studs, nuts, bolts and other threaded connections, including turbine casing studs, burner nozzles, boiler inspection points and furnace bolts. ALUMSLIP is particularly designed where copper needs to be avoided (for example where concerns of galvanic corrosion exist).

Features and benefits

- High temperature capability – up to 650°C
- Ensures consistent friction between threads
- Protects against galling and seizure
- Protects against rust and corrosion
- Eases assembly of tight tolerance components

Instructions for use

MOLYSLIP ALUMSLIP should be used as supplied. Ensure surfaces to be treated are clean and dry - free from oil, grease or dirt contamination. Apply a thin even coating by rubbing onto the surface with a lint free cloth.

Packaging

500g tin

Technical data (typical values)

Property	Result
Appearance	Smooth silver paste
Consistency	NLGI 1
Effective temperature range	-100°C up to +650°C
Solidification point (of the base fluid)	-20°C
Base oil viscosity	100 cSt

When a compound is applied to a threaded fastener that will be tightened to a specific torque setting, the torque setting will require adjustment to allow for the lubricating effect of the compound. Failure to do so can result in incorrect tension in the fastener. Correct torque settings can be calculated using the tables and charts below and the standard thread equation:

$$T = KDP$$

T = Torque (N.m)
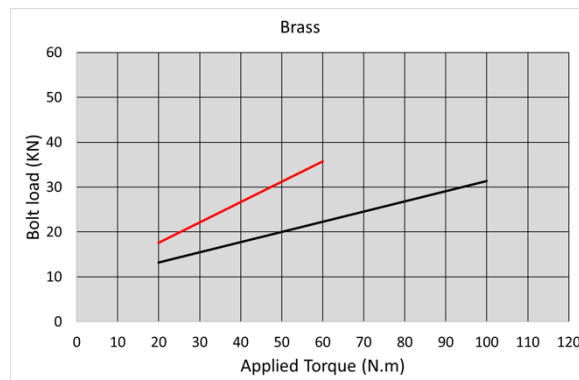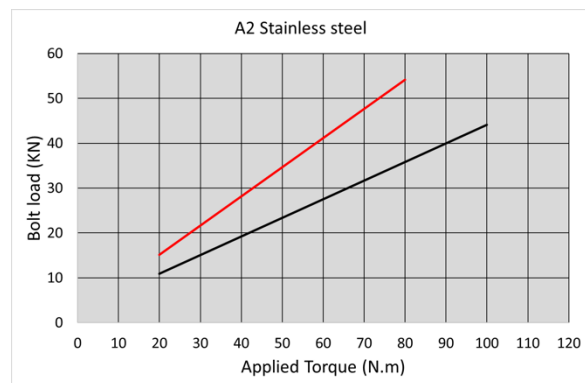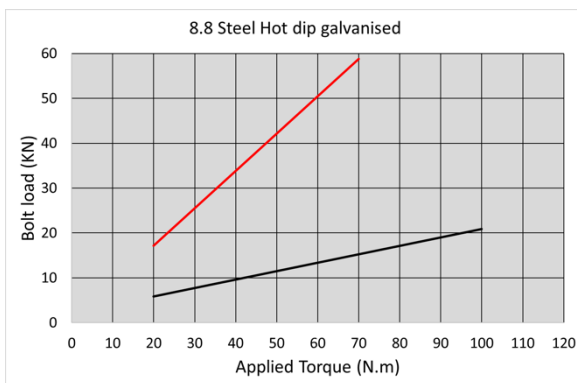D = Diameter (m)
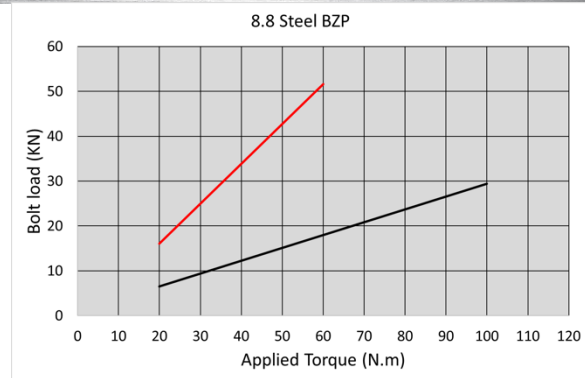P = Clamping force (N)
K = Nut factor

Material	K Nut factor
8.8 Steel self coloured	0.11
8.8 Steel BZP	0.10
8.8 Steel Hot dip galvanised	0.10
A2 Stainless steel	0.12
Brass	0.12

These results were obtained from the tension-torsion relationship measured on M12 x 50mm setscrews with 1.75mm thread pitch, full nut and form A washers. Fasteners were degreased and a thin layer of compound applied to the thread, underside of bolt head and top of the nut.

8.8 Steel self coloured

8.8 Steel BZP

8.8 Steel Hot dip galvanised

A2 Stainless steel

Brass

Black = Degreased fastener
Red = Alumslip

The product information in this publication is based on knowledge and experience at the time of printing. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.
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