

# Technical data

## AS60

**MOLYSLIP®**

## Premium anti-scuffing and assembly paste

### Description

MOLYSLIP AS60 is a premium performance anti-scuffing and assembly paste containing pure molybdenum disulphide ( $\text{MoS}_2$ ).

MOLYSLIP AS60 is designed for use in situations where a hydrodynamic oil film cannot be tolerated or is impossible to achieve – for example during component assembly, machine start-up and high load/slow speed operations. The high load carrying capacity of the  $\text{MoS}_2$  solid lubricant (>140,000 psi which is above the yield point of most metals) provides an ultra-low low friction physical barrier between metal surfaces preventing cold-welding or pick-up that can irrevocably damage components.

MOLYSLIP AS60 is suitable for multiple uses including: assembly of transition and interference fit components, lubrication of sliding mechanisms, plain bearings, pins, bushes and valves and as start-up or run dry protection on gears.

MOLYSLIP AS60 can under certain circumstances be used as an alternative to traditional metals containing and metal-free anti-seize compounds.

### Features and benefits

- Eases assembly of tight tolerance components
- Reduces friction & wear
- Protects against 'fretting' corrosion
- Withstands extreme loads
- Ensures bedding in without scuffing or scoring

### Instructions for use

MOLYSLIP AS60 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.

For applications where a near dry film is required burnish with a lint free cloth until a shiny silver/grey surface is formed.

### Packaging

500g tin and 5kg pail

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### Technical data (typical values)

Property	Result
Consistency	NLGI 2
Particle size of molybdenum disulphide	0.5 to 5.0 microns
Flash point (IP34)	>200°C
Effective temperature range	-100°C up to +450°C
Solidification point (base fluid)	-20°C
Coefficient of friction (steel on steel, steady state)	0.08

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

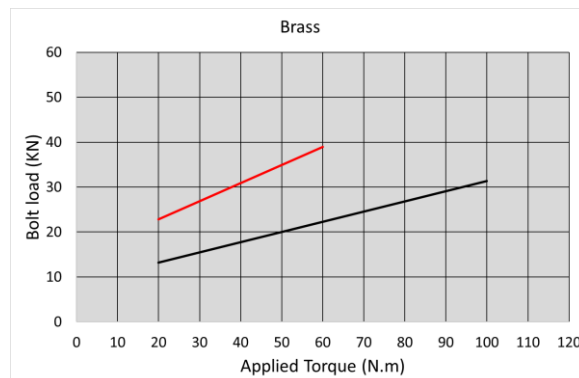
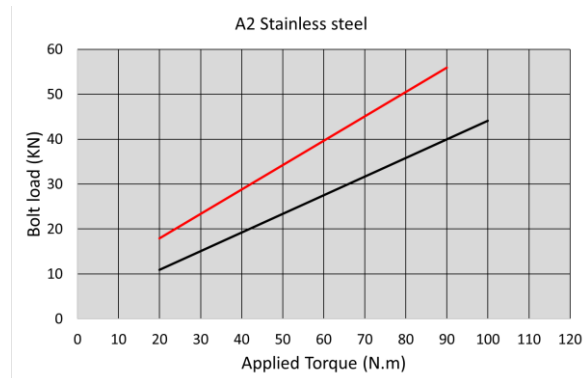
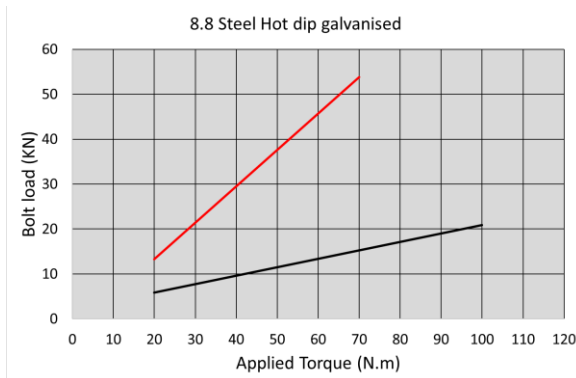
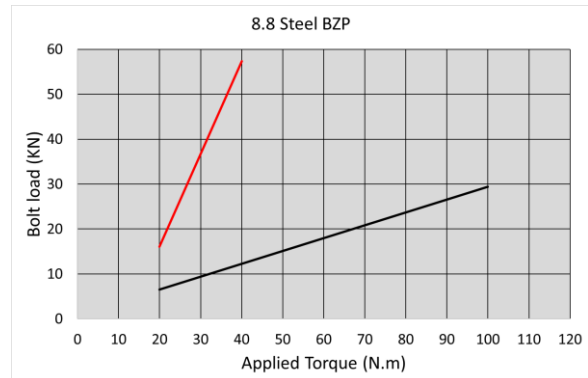
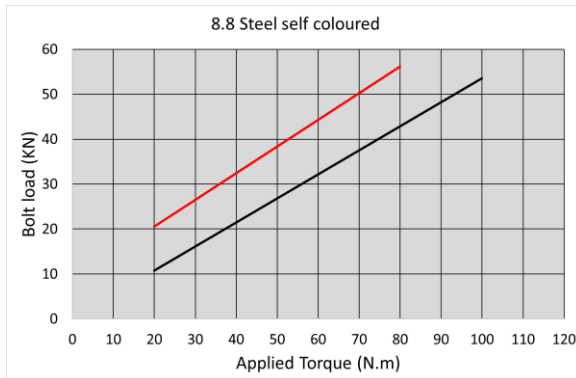
Material	K Nut factor
8.8 Steel self-coloured	0.11
8.8 Steel BZP	0.06
8.8 Steel Hot dip galvanised	0.11
A2 Stainless steel	0.12
Brass	0.10

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.

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Black = Degreased fastener  
Red = AS60

## Storage

Store MOLYSLIP AS60 out of direct sunlight.

Storage temperature should be controlled to between 15°C and 40°C.

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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