

Anti-scuffing and assembly paste

Description

MOLYSLIP AS40 Anti-scuffing and assembly paste is a high performance lubricant containing molybdenum disulphide (MoS₂) and graphite, formed into a soft paste.

MOLYSLIP AS40 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 MoS₂ and graphite solids (in excess of 140,000 psi which is above the yield point of most metals) provide an ultra-low friction physical barrier between metal surfaces preventing micro-welding or pick-up that can irrevocably damage components from occurring.

MOLYSLIP AS40 is suitable for multiple uses including: as an anti-seize on fasteners, an assembly aide, a lubricant on sliding mechanisms, plain bearings, pins, bushes and valves and as start-up or run dry protection on gears.

Features and benefits

- Ensures bedding in without scuffing or scoring
- Reduces wear and cuts costs
- Protects against rust and corrosion
- Eases assembly of tight tolerance components
- Withstands extreme loads

Instructions for use

MOLYSLIP AS40 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

Technical data

AS40



Technical data (typical values)

Property	Result
Consistency	NLGI 1
Particle size	
Molybdenum disulphide	0.5 to 5.0 microns
Graphite	1.0 to 8.0 microns
Flash point (IP34)	>200°C
Effective temperature range	-100°C up to +550°C
Solidification point (of the 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

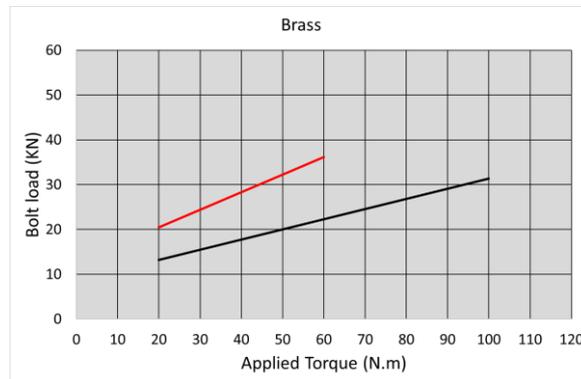
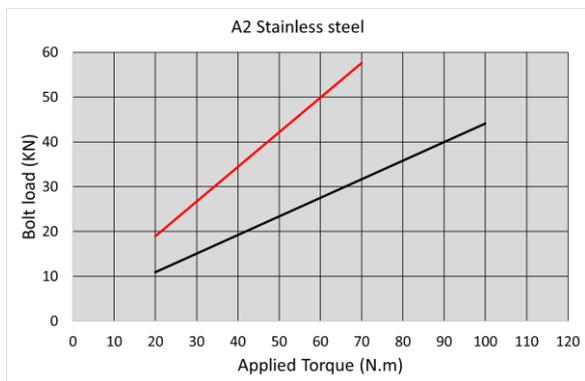
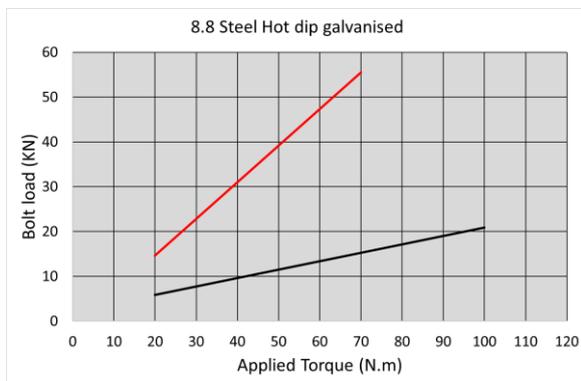
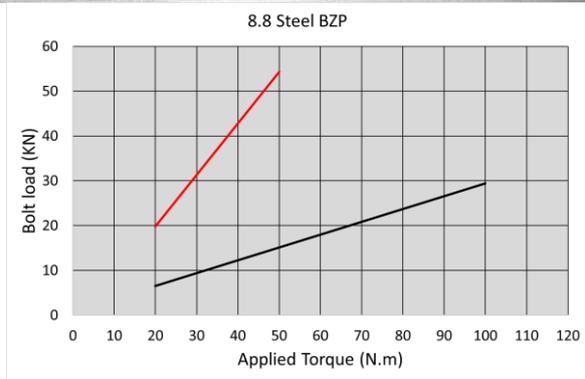
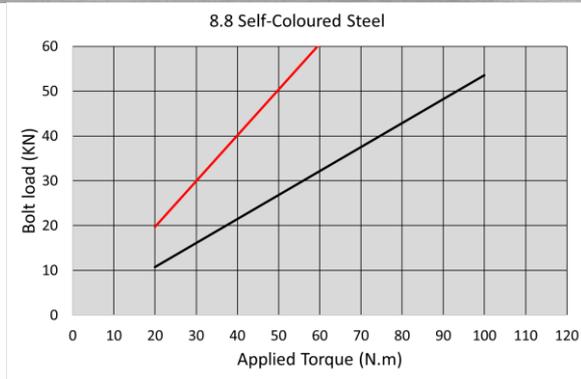
Material	K Nut factor
8.8 Steel self coloured	0.08
8.8 Steel BZP	0.08
8.8 Steel Hot dip galvanised	0.11
A2 Stainless steel	0.10
Brass	0.11

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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MOLYSLIP[®]



Black = Degreased fastener
 Red = AS40

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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Molyslip Atlantic Limited, 4 Huntsman Drive, Northbank Industrial Park, Irlam, Manchester, M44 5EG, UK
 Tel: +44 (0)161 804 4700 Fax: +44 (0)161 804 4701 enquiries@molyslip.co.uk www.molyslip.co.uk

Company registration number: 02664511; Company registered in England VAT registration number GB578295191