Revision Date: 2022-09-28

Technical data

AS40

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 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 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.

Refer to the product safety data sheet for guidance on safe handling, storage and disposal.

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Storage

MOLYSLIP AS40 should be stored in original, unopened packaging, out of direct sunlight at temperatures between 5°C and 35°C. The most up to date shelf life information for Molyslip products can be found on the certificate of analysis issued at the time of manufacture.

Packaging and product code

Code	Pack
M115005	500g tin
M115050	5kg pail

Technical data

Property	Test method	Result
Appearance	-	Grey paste
Consistency	IP50	NLGI 1
Particle size: **Molybdenum disulphide** **Graphite**	-	 0.5 to 5.0 microns 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

Note: these values are typical only and do not constitute a specification

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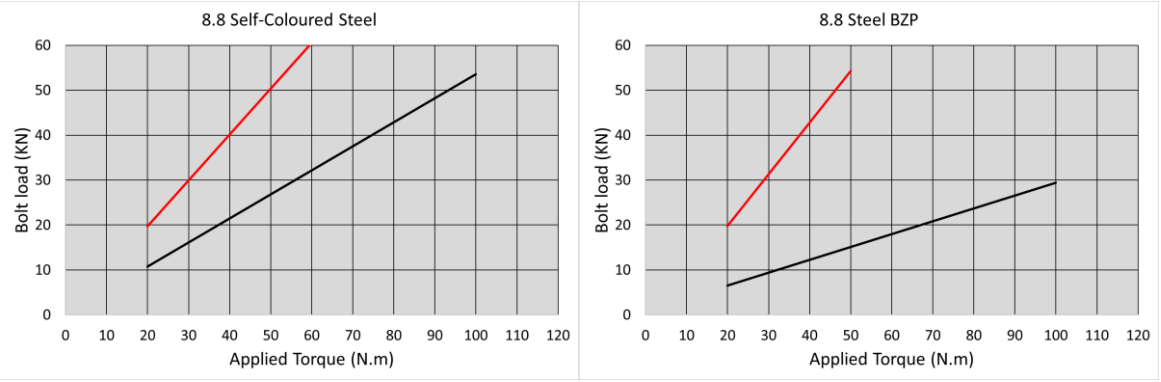
When a compound is applied to a threaded fastener that will be tightened to a specific torque setting, the torque setting will require adjustment to allow for the lubricating effect of the compound. Failure to do so can result in incorrect tension in the fastener. Correct torque settings can be calculated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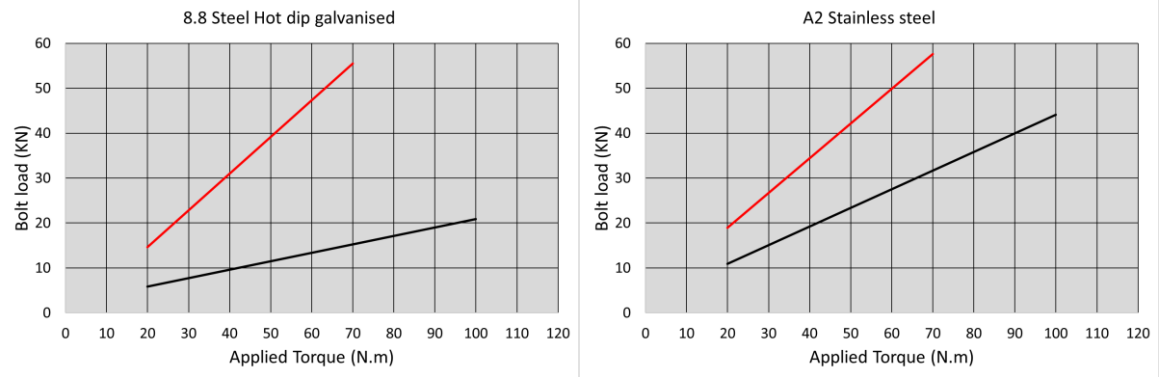

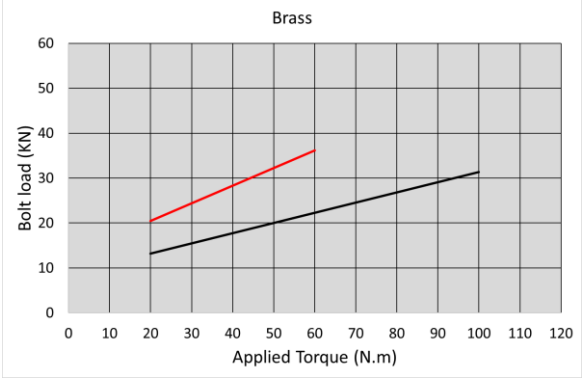

Black = Degreased fastener
Red = AS40

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