

## Technical data

# AS60

## Premium anti-scuffing and assembly paste

### Description

MOLYSLIP AS60 is a premium performance anti-scuffing and assembly paste containing pure molybdenum disulphide (MoS<sub>2</sub>).

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 MoS<sub>2</sub> 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 the surface by brush or 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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Company registration number: 2263118; Company registered in England VAT registration number GB108244927

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### Storage

MOLYSLIP AS60 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
M116005	500g tin
M116050	5kg pail

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Property	Test method	Result
Appearance	-	Smooth grey paste
Consistency	IP50	NLGI 2
Particle size: Molybdenum disulphide	-	0.5 to 5.0 microns
Flash point	IP34	>200°C
Effective temperature range	-	-100°C up to +450°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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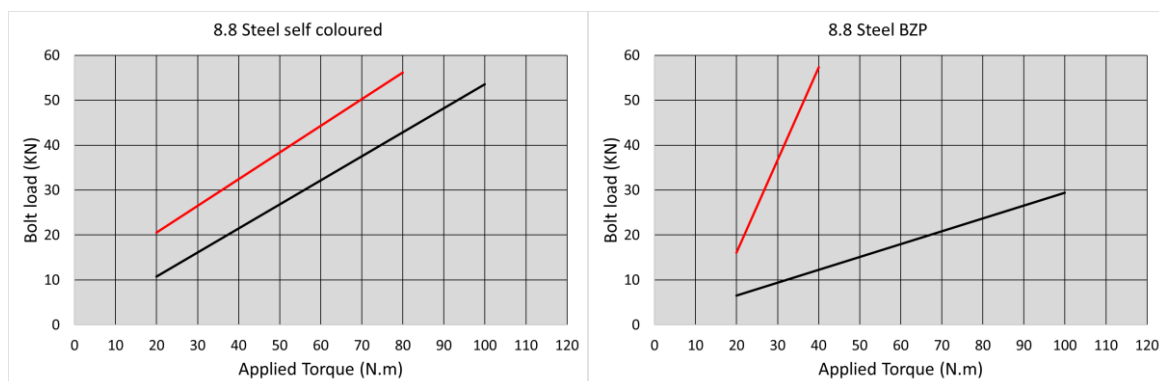
When a compound is applied to a threaded fastener that will be tightened to a specific torque setting, the torque setting will require adjustment to allow for the lubricating effect of the compound. Failure to do so can result in incorrect tension in the fastener. Correct torque settings can be calculated 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	0.11
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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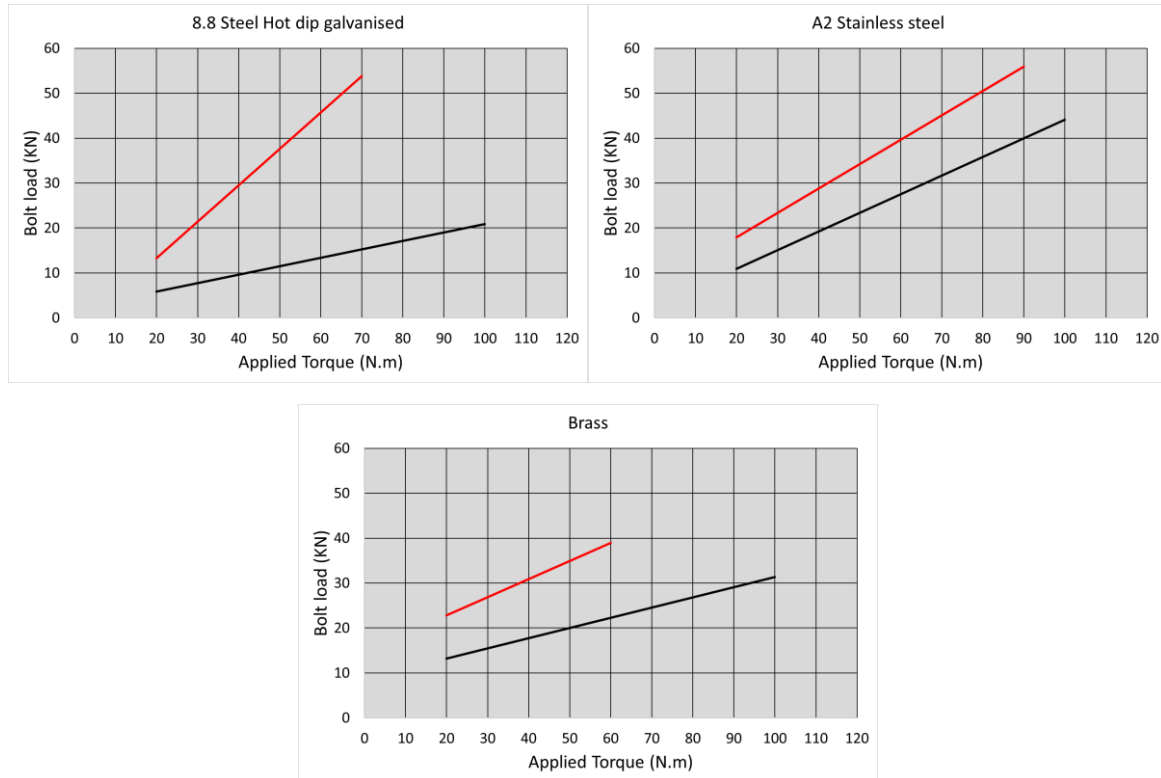
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Black = Degreased fastener  
Red = AS60

### Limited warranty information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective and fully satisfactory for the intended end use. We accept no liability for any loss and/or damage arising from a failure to store out products in accordance with the information contained in this technical sheet.

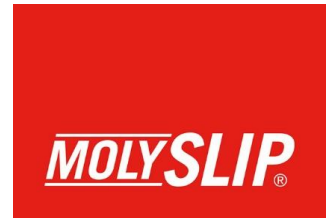
Metalube Group's sole warranty is that our products will meet their quality control specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

To the fullest extent permitted by applicable law, Metalube Group specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Metalube Group disclaims liability for any incidental or consequential damages.

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Metalube Group's sole warranty is that our products will meet their quality control specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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