

High temperature anti-seize compound

Description

COPASLIP is a high performance compound specifically formulated to protect fasteners from seizure induced by extremes of temperature, pressure and corrosion. The semi-synthetic base fluid is reinforced with anti-oxidants, corrosion inhibitors and ultra pure copper particles to provide outstanding protection to threads and components.

COPASLIP minimises variations in frictional interference between threads allowing accurate, consistent assembly. It also prevents galling and seizure during assembly and dismantling – even after long periods of exposure to high temperatures, corrosive environments or high pressure.

Features and benefits

- Ensures consistent friction between threads
- Protects against galling and seizure
- Protects against rust and corrosion
- Eases assembly of tight tolerance components
- Withstands extreme temperature

Instructions for use

COPASLIP 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 or brush.

Packaging

100g tubes, 400ml aerosol, 500g tin, 5kg and 20kg pails

Technical data

COPASLIP



Technical data (typical values)

| Property | Result |
|--|-------------------------|
| Consistency | NLGI 1 |
| Base oil viscosity | 100 cSt |
| Drop point | >300°C (non-melting) |
| Flash point (IP34) | >200°C |
| Effective temperature range | -40°C up to +1100°C |
| Solidification point (of the base fluid) | -20°C |
| Coefficient of friction (steel on steel, steady state) | 0.12 |

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

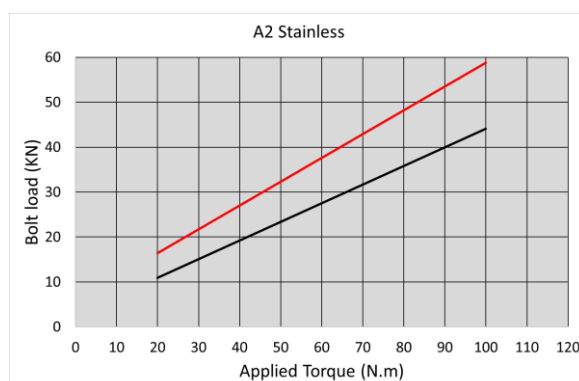
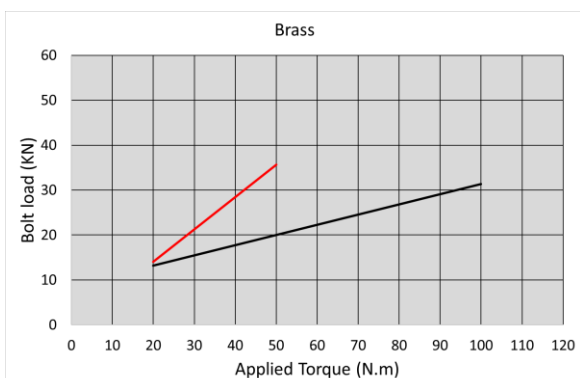
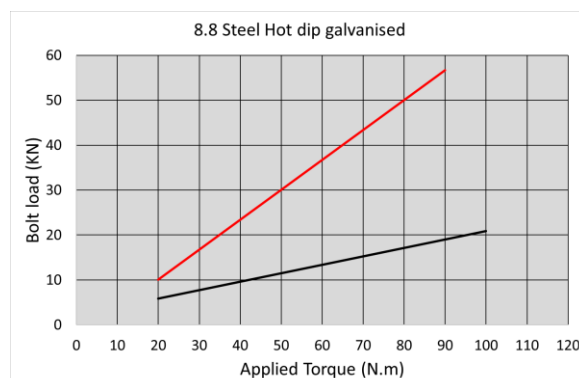
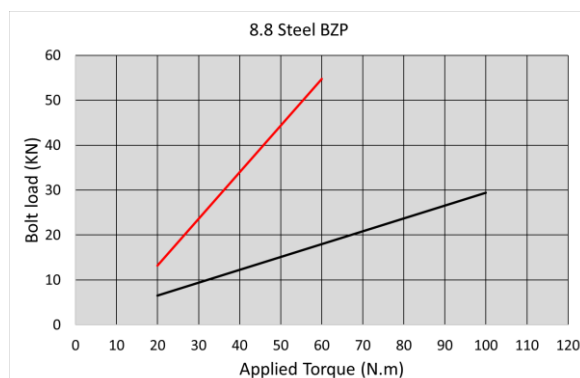
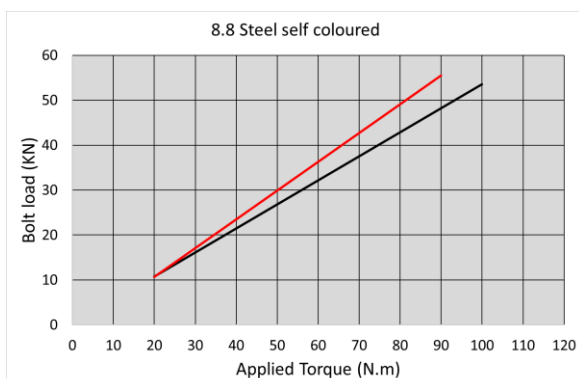
| Material | K Nut factor |
|------------------------------|--------------|
| 8.8 Steel self coloured | 0.14 |
| 8.8 Steel BZP | 0.10 |
| 8.8 Steel Hot dip galvanised | 0.14 |
| A2 Stainless steel | 0.13 |
| Brass | 0.12 |

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.

Technical data

COPASLIP

MOLYSLIP®



Black = Degreased fastener
Red = COPASLIP

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.
Issue date 06-17

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