

Technical data

Molyslip MOLYFORGE X45

The logo for Molyslip, featuring the word "MOLYSLIP" in a bold, italicized, sans-serif font with a registered trademark symbol, set against a red rectangular background.

Hot metal forming compound

Description

Molyslip MOLYFORGE X45 is a specially formulated dispersion of high purity solid lubricants and anti-wear additives in refined mineral oil thickened with lithium soap.

Molyslip MOLYFORGE X45 is a low co-efficient of friction compound providing lubrication and a thermal barrier between tool and workpiece in hot extrusion and press forging of stainless steel and nickel alloy materials. The product is designed for use at elevated temperature and aids metal flow allowing production of complex geometry components whilst reducing tool/die wear and provides effective billet release and reduced pick-up on plungers in hot extrusion processes .

Features and benefits

- High temperature resistant low friction compound coating
- Effective high temperature tool/die to component interface lubrication
- Aids metal flow
- Prevents tooling-to-component seizure
- Extends tool/die life
- Reduces pick-up and galling
- Easily applied by brush/swab
- Extended application intervals

Packaging

20kg

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

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Instructions for use

Supplied ready for use.

Application

Ensure equipment to be coated is clean and free from oil and grease contamination. For best results apply a thin even coating to the tool/die surfaces by brush/swab ensuring that all surfaces are completely and evenly coated.

Technical data (typical values)

Property	Test method	Result
Appearance	-	Smooth grey/black compound
Base	-	Refined mineral oil
Thickener	-	Lithium soap
Drop point	IP132	>190°C
Density (@20°C)	Kg/ltr	1.4
Solid Lubricant(s)	-	MoS ₂ / Graphite
Content	%/weight	60
Coefficient of friction (steel on steel, steady state)	-	0.08

Storage

Store Molyslip MOLYFORGE X45 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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