

Minimum quantity lubricants for metal processing

Description

MOLYSLIP MQL is a range of high performance lubricants designed for the near dry machining of ferrous and non-ferrous metals. The high polarity, natural base fluids exhibit excellent metal wetting properties and outstanding film strength virtually eliminating contact between the tool and workpiece. This high lubricity improves surface finish and minimizes tool wear.

MOLYSLIP MQL products are suitable for use on most ferrous and non-ferrous metals. Operations such as sawing, milling and drilling can be carried out utilizing spray mist application methods.

Features and benefits

- Provide optimum hydrodynamic and boundary lubrication to extend tool life and provide outstanding surface finish
- Leaves components almost dry
- Low odour, pleasant to use
- Eliminate waste oil disposal costs
- Suitable for replacing coolants in a wide range of machining applications and processes
- Free from mineral oil, silicones, chlorine and sulphur

Instructions for use

MOLYSLIP MQL products should be used as supplied. Lubrication systems should be drained of previous lubricants and flushed prior to filling.

Optimum performance is achieved by utilizing spray mist, minimal lubrication systems.

Packaging

5 ltr and 20 ltr

Technical data

ML



Technical data (typical values)

Property	ML 20	ML 30	ML 40	ML 50
Appearance	Blue fluid	Blue/gree fluid	Blue fluid	Blue fluid
Kinematic viscosity @ 40°C	36 cSt	45 cSt	19 cSt	7 cSt
Pour point	-10°C	-10°C	-50°C	-20°C
Acid value	<0.5 mgKOH/g	1.5 mgKOH/g	<0.5 mgKOH/g	<0.5 mgKOH/g
Density at 20°C	0.91 g.cm ⁻³	0.92 g.cm ⁻³	0.83 g.cm ⁻³	0.86 g.cm ⁻³

Product selection

Property	ML 20	ML 30	ML 40	ML 50
Ferrous metals	✓✓✓	✓✓✓	✓✓	✓✓
Hard alloys	✓✓	✓✓✓	✓	✓
Non-ferrous metals	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Heat treatment without degreasing	x	x	✓✓✓	✓✓

Storage

Store MOLYSLIP ML out of direct sunlight. Storage temperature should be controlled to between 5°C and 35°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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