

MOL Synaxol 250

universal metalworking fluid



MOL Synaxol 250 is a boron free synthetic water-miscible metalworking fluid. The product is free from mineral oil, it contains emulsifier, corrosion inhibitor, EP additive, friction modifier and antiwear components. Due to its special composition, it can be used for grinding hard metals. It is recommended to use a mixing equipment for preparing the emulsion. The concentrate is always to be added to the water during agitated mixing. The concentration of the prepared emulsion should be checked using a calibrated refractometer. Due to its well balanced composition, the product is resistant to biological contamination, and a long service life can be achieved if handled properly. Refractometer factor: 1,7. Cleanliness of the system is a determining factor in terms of the operating life of the emulsion, so it is recommended to use MOL Netsol SC system cleaner before every change. Resistance to micro organisms can be ensured by maintaining a minimum emulsion concentration of 4-5 % (V/V).

Machining	Application concentration
Grinding	4-7

Application



Grinding of hard metals, steel, cast iron and non-ferrous metals

Features and benefits

Excellent lubricity

Excellent surface quality and high manufacturing precision

Effective washing and rinsing properties

Effectively contributes to keeping machines, tools and workpieces clean
Effective cleaning of grinding discs, so less frequent need for re-conditioning

Excellent corrosion protection

Extreme long term protection of steel and non-ferrous metal parts

Ready miscibility with water

Simple and quick emulsion preparation

Excellent hard water resistance

Forms a stable emulsion even with hard water
No separation or sticky residues are formed on machines and workpieces

Excellent filterability

Reduced maintenance costs and environmental impact

Mild odour

More comfortable working environments

Free of boron, nitrites and secondary amines

Beneficial in terms of workplace health requirements

Specifications and approvals

EMAG
ISO 6743-7: L-MAH

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Properties

Properties	Typical values
Appearance	yellow colored, clear
Density at 15°C [g/cm ³]	1,129
Kinematic viscosity at 40°C [mm ² /s]	30
Emulsion pH value (5% (V/V) / 12 dH°)	9,3
Anticorrosion effect - Filter-paper test (4% (V/V) / distilled water) [grade]	0
Anticorrosion effect (5% (V/V) / 20dH°)	
Collapse of foam [s]	20

The characteristics in table are typical values of the product and do not constitute a specification.

Storage and handling instructions

Store in the original container in dry, properly ventilated area. Keep away from direct flame and other sources of ignition. Protect from direct sunlight. To preserve the original quality keep the suggested storage temperature. During transport, storage and use of the product follow the work safety instructions and environmental regulations relating to mineral oil products.

In the concentration specified for use and in case of keeping the health safety rules, the emulsions are not harmful to human health and do not cause skin affection.

For further details please read the Material Safety Data Sheet of the product.

In the original container under the recommended storage conditions: 12 months

Recommended storage temperature: +5°C - +40°C

Ordering information

Custom Tariff Number 34039900

SAP code and packaging:

13007338 MOL Synaxol 250 10LA

10 l plastic can (for order only)

13007340 MOL Synaxol 250 200KG

216.5 l steel drum (for order only)

Order booking:

Please contact your local distributor or sales partner for ordering details.