

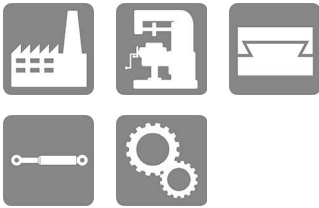
# MOL Multi SW 46

## slideway-hydraulic oil



MOL Multi SW 46 is a multipurpose premium lubricating oil developed for the lubrication of mechanical drives of slideways and hydraulic units of high precision machine tools. It is a highly refined mineral oil containing additives that inhibit oxidation, wear, corrosion and foaming, provide extreme-pressure (EP) performance, modify the flow characteristics and increase the strength of lubricating film. It forms a strongly adhering lubricating film, which withstands the washing effect of the metalworking fluid, prevents stick-slip (the friction that can cause vibration of the slide), thus allowing a uniform movement and precise machining accuracy even in case of high loads and low speeds. It has excellent wear resistance and pressure resistance properties, protects against abrasion and excessive wear even in case of high loads. It protects the parts of the machine tools effectively against corrosion.

### Application



Horizontal slideways of machine-tools

Plain bearings with cast and polymer surface

Slideways of low speed medium-duty machine-tools providing stick-slip free high precision positioning

Machine-tool hydraulic and slideway systems lubricated from a common supply

Mechanical drives and headstocks of machine-tools

### Features and benefits

Excellent lubricity

Effective friction and wear reduction

Increased equipment service life, reduced spare parts and operational costs

Good thermal and oxidation stability

Resists the ageing process, even at high operating temperature and pressure conditions

No deposit or sludge formation

Longer oil service interval and reduced maintenance costs

Excellent prevention of stick-slip

Precise positioning for high-precision manufacturing

Provides a uniform, vibration-free slideway motion even under heavy loads and low speeds

Excellent tackiness

The oil film is resistant to the washing effects of metalworking fluids, so there is a potential to reduce slideway oil consumption

Excellent corrosion protection

Effective protection of steel and non-ferrous metal parts even in the presence of water

Long machine lifetime, so reduced maintenance cost

Compatible with emulsions

Separates effectively from metalworking fluids, easily separable, so contributes to extended service life of technological aids

Compatible with construction materials

No damage to the structures of metals and plastics used in slideways

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### Specifications and approvals

Viscosity grade: ISO VG 46  
ISO 11158 HM  
ISO 11158 HG  
ISO-L-G  
ISO-L-HG  
ISO-L-HM  
DIN 51502 CGLP  
DIN 51524-2 (HLP)  
DIN 51517-3 (CLP)  
Eaton (Vickers) M-2950-S  
General Motors LS2 LW-06-1-00

### Properties

Properties	Typical values
Density at 15°C [g/cm <sup>3</sup> ]	0,875
Kinematic viscosity at 40°C [mm <sup>2</sup> /s]	46
Kinematic viscosity at 100 °C [mm <sup>2</sup> /s]	6,95
Viscosity index	108
Pour point [°C]	-27
Flash point (Cleveland) [°C]	225

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.  
During transport, storage and use of the product follow the work safety instructions and environmental regulations relating to mineral oil products.  
For further details please read the Material Safety Data Sheet of the product.  
In the original container under the recommended storage conditions: 48 months  
Recommended storage temperature: max. 40°C

### Ordering information

Custom Tariff Number 27101999

#### SAP code and packaging:

13006462 MOL Multi SW 46 50KG 60 l steel drum (for order only)  
13006461 MOL Multi SW 46 180KG 216.5 l steel drum

#### Order booking:

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