



Mornop 80

Mobil Industrial , Hungary  
Neat metalworking fluids

Product Description

Mobil Mornop™ 80 is a high performance, water-immiscible coolant on a special basis refined petroleum base oil. It is designed primarily for cutting (stamping), die cutting and chip-free forming of structural, alloy and high-alloy steels.

Mobil MORNOP 80 has a high amount of load carrying additives in combination with effective lubricity improvers, anti-mist agents, and tackifiers blended with quality mineral oil. The additive used ensures reliable protection of both tools and workpieces.

Although the active sulfur and phosphorus compounds contained in the product tend to discolour parts of machines and copper workpieces and copper alloys.

Mobil MORNOP 80 does not contain chlorine additives and is blend with special additives to reduce the formation of mist in the workplace.

Features and Benefits

| Features                     | Advantages and Potential Benefits   |
|------------------------------|---|
| Superb machining performance | Suitable for severe punching operations                                     |
|                              | Carefully balanced additive system gives high cutting efficiency.           |
|                              | High additive content provides long tool life for cost-efficient operations |
| Chlorine free formulation    | Environmentally acceptable due to absence of any chlorinated additives      |
| Anti-mist formulation        | Reduced formation of oil mist leads to cleaner working environment          |

Applications

Mornop 80 is a special product for severe punching operations on steel. Depending on the alloy, punching can be performed on sheets up to 7 mm thickness. Mornop 80 can also be used for deep-drawing operations on mild steel.

Due to its content of active sulphur compounds Mornop 80 should not be used for operations on non-ferrous metals.

\*Sheet steel products USt 14 up to 3 mm sheet thickness, which are produced by drawing up to 10 degrees, final dimensions approx: diameter 70 mm, length 100 mm.

- For punching of alloy and unalloyed steel sheets with a thickness of less than 3mm.
- For punching and deep drawing semi-finished products for sheet metal chains up to 7 mm thick.

Properties and Specifications

| Property  |     |
|---|-----|
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445          | 88  |
| Density @ 15 C, kg/m3, ASTM D4052                     | 940 |
| Pour Point, °C, ASTM D97                              | -15 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92         | 165 |
| ASTM Color, ASTM D1500                                | 3.5 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 4   |

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.as>

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All properties may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com)  
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