MACRON 400 M-22
Neat Cutting, Hydraulic and Lubricating Oil

DESCRIPTION
MACRON 400 M-22 is based on hydro treated mineral oil with low aromatic content. A combination of polar, extreme pressure and anti-wear additives provide the oil with high load carrying properties. The oil provides good surface finish of the machined work pieces.
MACRON 400 M-22 is free from zinc, chlorine and active sulphur.

APPLICATIONS
MACRON 400 M-22 is a high performance cutting oil for operations on light and medium alloyed steels, aluminium and yellow metals.
MACRON 400 M-22 has multipurpose oil characteristic for cutting and hydraulic oil HLP DIN 51524-2. It has a good de-aeration power, does not foam and is not aggressive for paints on machine tools.

RECOMMENDATION FOR USE
MACRON 400 M-22 is used neat as supplied.

TYPICAL PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>yellow</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity @ 20 °C</td>
<td>860</td>
<td>ASTM D 4052</td>
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<tr>
<td>kg/m³</td>
<td></td>
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<tr>
<td>Kinetic Viscosity @ 40°C, mm²/s</td>
<td>22</td>
<td>ASTM D 7042</td>
</tr>
<tr>
<td>Flash Point COC °C</td>
<td>200</td>
<td>ASTM D 92</td>
</tr>
<tr>
<td>Pour Point °C</td>
<td>-21</td>
<td>ASTM D 97</td>
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<tr>
<td>Copper Corrosion</td>
<td>1a</td>
<td>ASTM D 130</td>
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</tbody>
</table>

BENEFITS
- Increased productivity - reduced machine downtime
- Reduced cost - long sump life
- Secure handling - clean working environment
- Secure handling - fulfills HLP standards

RELATED PRODUCTS
For best results we recommend the use of the Houghton range of industrial lubricants, cleaners and corrosion protective.
For more information, please contact your local Houghton representative.

STORAGE
Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

HEALTH AND SAFETY
Safety data sheets are available in accordance with Regulation (EC) No 1907/2006 Annex II where a substance or preparation meets the criteria in accordance with Directives 67/548/EEC or 1999/45/EC.

GM 2012/09/18 GB