**HD COOL INTER ULTRA**

Heavy Duty engine coolant concentrate

**DESCRIPTION**

**HD COOL INTER ULTRA** is an anti-corrosion coolant concentrate that builds a protective layer on the inside surfaces of the cooling system particularly those already being affected by corrosion (engine blocks, cylinder heads, liners, water pumps and radiators). The organic acids will seal the surfaces affected and prevent further corrosion taking place.

**HD COOL INTER ULTRA** uses hybrid organic acid technology (HOAT) for improved corrosion protection.

Also available as a 50:50 mix called **HD COOL INTER**.

**ADVANTAGES**

- Provides excellent wet sleeve liner cavitation protection in Heavy Duty applications
- Phosphate-free formula to avoid scale formation on hot engine surfaces
- Provides an excellent thermal exchange improving engine cooling efficiency
- Increases water pump lifetime
- Compatible with seals, hoses, pipes and parts made of plastic

**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Method</th>
<th>Units</th>
<th>Norms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Visual</td>
<td></td>
<td>Yellow</td>
</tr>
<tr>
<td>Density at 20°C/68°F</td>
<td>ASTM D5931</td>
<td>g/mL</td>
<td>1.132</td>
</tr>
<tr>
<td>pH</td>
<td>ASTM D1287</td>
<td></td>
<td>6.6</td>
</tr>
<tr>
<td>Initial crystallization</td>
<td>ASTM D1177</td>
<td>°C / °F</td>
<td>-38 / -36</td>
</tr>
<tr>
<td>Freezing protection</td>
<td>ASTM D1177</td>
<td>°C / °F</td>
<td>-37 / -35</td>
</tr>
<tr>
<td>Boiling point</td>
<td>NF R15-602.4</td>
<td>°C / °F</td>
<td>175 / 347</td>
</tr>
</tbody>
</table>

Contains a bitterness agent to prevent from drinking: Coolants and concentrates have a sweet taste but are harmful.
SPECIFICATIONS / APPROVALS / STANDARDS

HD COOL INTER ULTRA meets or exceeds the most common specifications and OEM requirements:

- Deutz-Fahr
- Ford North America – WSS-M 97B51-A1
- Iveco
- JCB – STD00088
- John Deere – JDM H24

HD COOL INTER ULTRA received approvals from:

- MTU – MTL 5048

HD COOL INTER ULTRA meets the following standards:

- AS Standards – AS 2108
- ASTM Standards – ASTM D3306
- ASTM Standards – ASTM D6210
- British Standards – BS 6580
- China Standards – China GB 29743
- Cuna Standards – CUNA NC 956-16
- NFR Standards – NFR 15-601
- ÖNORM Standards – ÖNORM V5123
- SANS Standards – SANS 1251
- SAE Standards – SAE J1034

APPLICATION

HD COOL INTER ULTRA is recommended for all cooling systems of heavy duty, construction, mining and agriculture vehicles and equipment, gardening, ships, stationary engines, …

RECOMMENDATIONS

- Must be used diluted in water. For better results, use demineralized water
- To maintain anti-corrosion properties, do not dilute below 33%. Refer to chart for dilution rates
- To be used for top-up or complete renewal of the cooling circuit for improved efficiency
- Drain intervals: Refer to the manufacturers’ recommendations
- Attention, control or drain the coolant only when the engine is cold
- Can be mixed with ethylene glycol-based coolants
- Avoid mixing with other products for maximum performance output
- This product should not be used to protect drinking water systems from freezing

<table>
<thead>
<tr>
<th>HD COOL INTER ULTRA %</th>
<th>Freeze Point Protection T°C / T°F</th>
<th>Boiling Point Protection T°C / T°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>-22 / -8</td>
<td>132 / 282</td>
</tr>
<tr>
<td>40</td>
<td>-30 / -22</td>
<td>136 / 277</td>
</tr>
<tr>
<td>50</td>
<td>-41 / -42</td>
<td>134 / 273</td>
</tr>
<tr>
<td>60</td>
<td>-54 / -65</td>
<td>132 / 269</td>
</tr>
</tbody>
</table>

**SERVICE AND EQUIPMENT**

In addition to its product ranges, Motul can provide tools and services for the maintenance and in-use monitoring of your lubricants. Please contact your technical sales representative.

**IMPORTANT NOTICE**

All information and rules about health, safety and the environment are mentioned on the safety data sheet. It provides information about risks, safety procedures and first aid emergency rules. It clarifies all procedures to implement in the case of an accidental spillage, and for the disposal of the product and its effects on the environment.

Our product contains natural additives which are likely to modify the colour of the concentrates without altering its performance. The specifications of our products are definite only at the time of order, and are subject to our general sale and guarantee conditions. To give our customers the latest technical developments, the general characteristics of our products may vary. The safety data sheet of this product is available at [www.motul.com](http://www.motul.com)