**CONDAT D**

**FIRE RESISTANT - BIODEGRADABLE – ENVIRONMENTALLY FRIENDLY HYDRAULIC OIL**

**APPLICATIONS**

"CONDAT D" range are synthetic fluids without water content formulated organic ester base.

When hydraulic installations are working in closed premises where fire risks are present "CONDAT D" can be used:
- tunnel boring machine and mine equipments, public work engines,
- continuous casting,
- rolling mills,
- ovens,
- die casting equipments,
- welding equipments.
- incineration plants.

"CONDAT D" reduces the hazards presented by a mineral oil when, for example a pipe breaks near a flame or a smelting piece, and oil is sprayed out due to the leaks, or any incident which can occur on hydraulic systems near molten alloys.

Where hydraulic installations are working in natural environment or in direct contact with the ground, like tunnel boring machines, the use of "CONDAT D" protects against all risks of pollution incidents.

**ADVANTAGES**

Thanks to self-inflammation temperature > 450°C "CONDAT D" will not spontaneously ignite at a lower temperature.

With higher fire resistance properties, it will add excellent lubricating characteristics such as:
- high anti wear properties,
- a very high VI unshearing warranting giving the correct viscosity when used over a large temperature range,
- a good thermal stability,
- an excellent antifoam and good de-aeration properties,
- a good filterability power,
- a low pour point.

With a very good stability in use, the "CONDAT D" range gives a very long service life with very low pump wear.

"CONDAT D" range is perfectly miscible and compatible with hydraulic mineral oils. Thus, it may easily replace a standard mineral oil in hydraulic systems. Its lubricating properties are equivalent and it is compatible with the majority of metals and seals.

"CONDAT D" range prevents fire propagation and it has self-extinguishing properties and stops burnings as soon as the ignition source is taken away. Evaluated by FM, to which Insurance Companies refer with regards fire safety, according to class number 6930, "CONDAT D 46 and 68" are consistent with Industrial Fluid Flammability Classification: “approved”.

"CONDAT D46 and 68" are biodegradable and environmentally friendly (WGK 1 self classification)

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**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Nature</th>
<th>Synthetic ester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour / Aspect</td>
<td>Pale yellow / Clear</td>
</tr>
<tr>
<td>Specific gravity at 25 °C</td>
<td>0.92</td>
</tr>
<tr>
<td>Viscosity at 40°C</td>
<td>35 mm²/s</td>
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<tr>
<td>Viscosity at 100°C</td>
<td>7.7 mm²/s</td>
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<tr>
<td>Viscosity index</td>
<td>199</td>
</tr>
<tr>
<td>Flash point OV</td>
<td>&gt;290 °C</td>
</tr>
<tr>
<td>Fire point</td>
<td></td>
</tr>
<tr>
<td>Pour point</td>
<td>-26 °C</td>
</tr>
<tr>
<td>Anti wear capacity 1h/40kg</td>
<td>0.65 mm</td>
</tr>
<tr>
<td>Filterability AFNOR if</td>
<td>1,1</td>
</tr>
</tbody>
</table>

Above details are issued from a production average; they are not specifications

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**KEY FEATURES**

- **ISO 46 and 68 meet FM specification APPROVED**
- Extends the hydraulic component service life
- Long service life
- Environmentally friendly