Unofficial TECHNICAL INFORMATION SHEET

Additin® RC 9303 Additive Package

Description:
Ashless multifunctional oxidation, rust and wear inhibiting additive package- for antiwear hydraulic fluids according to: DIN 51524, part 2 and 3 (HLP, HVLP); AFNOR NF E 48-603 (HM, HV); SIS SS 155434; VDMA 24318; Hoesch HWN 2333; Thyssen TH N-256132; CETOP RP 91 H (HM, HV); U.S. Steel 126, 127 and 136; Sperry Vickers M-2950-S and I-286-S; Denison Filterability TP 02100
- for compressor oils according to: DIN 51506 (VBL, VCL, VDL); ISO/DP 6521 (DAA, DAB, DAH, DAG)

<table>
<thead>
<tr>
<th>Composition</th>
<th>combination of phosphorus-sulphur compounds with oxidation and corrosion inhibitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>yellow, clear liquid</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>approx. 2.5 % weight</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>approx. 1.5 % weight</td>
</tr>
<tr>
<td>Sulfur</td>
<td>approx. 1.7 % weight</td>
</tr>
<tr>
<td>Viscosity, 40°C (ASTM-D 445)</td>
<td>approx. 70 mm²/s</td>
</tr>
</tbody>
</table>
Density, 20°C (ASTM-D 1298)

approx. 970 kg/m3

Flash point, COC (ASTM-D 92)

approx. 130°C

Mineral Oil Content

none

**Application** - ashless high performance hydraulic fluids - compressor oils with antiwear properties

Additin RC 9303 is ideally suited for use in ashless hydraulic fluids for which the following high performance demands have to be met:

- very high oxidation stability (extended service life)- high load carrying capacity- good demulsification- good corrosion protection against steel and non-ferrous metals - good filterability

- good thermal and hydrolytic stability

Additionally Additin RC 9303 is also ideally suited for formulating compressor fluids with antiwear properties based on mineral oil as well as PAO and PAO/ester mixtures.

For some base oils, the addition of a defoamer may be necessary in order to meet the stringent foam limits of some industrial oil specifications. According to requirements, the recommended treatment levels of Additin RC 9303 are in the range of 0.6 to 0.8 % by weight for hydraulic fluids and 0.4 to 0.6% by weight for compressor oils.

**Solubility**

Soluble in mineral oils and synthetic base oils. However, it is necessary to verify the solubility in the base oils used and the compatibility with other additives.