**Unofficial TECHNICAL INFORMATION SHEET**

**Additin® RC 9410 Additive Package**

**Description:**
Ashless additive package for industrial gear oils according to: - U.S. Steel 224, 222, 223- DIN 51517, part 3 (CLP)- SEB 181 226
slideway oils according to: - Cincinnati Milacron P-50
hydraulic oils according to:- DIN 51524, Teil 2 (HLP)- AFNOR NF E 48-603 (HM)

<table>
<thead>
<tr>
<th>Composition</th>
<th>combination of phosphorus-sulfur compounds with oxidation and corrosion inhibitors</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>light brown liquid</td>
</tr>
<tr>
<td>Sulfur</td>
<td>approx. 16 % weight</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>approx. 1.3 % weight</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>approx. 1.0 % weight</td>
</tr>
<tr>
<td>Viscosity, 40°C (ASTM-D 445)</td>
<td>approx. 65 mm2/s</td>
</tr>
<tr>
<td>Density, 20°C (ASTM-D 1298)</td>
<td>approx. 980 kg/m3</td>
</tr>
</tbody>
</table>
**Flash point, COC (ASTM-D 92)**

approx. 150°C

**Mineral oil content**

approx. 20% weight

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**Application** - industrial gear oils - metalworking fluids - slideway oils - hydraulic oils

Additin RC 9410 is an ashless additive package with outstanding EP/AW behavior, oxidation and corrosion inhibiting properties. Industrial gear oils based on Additin RC 9410 exceed the following requirements:

- Timken OK load- oxidation stability- corrosion protection of steel and non-ferrous metals- wear protection capacity- load-carrying capacity (FZG test A 16.6/140°C) Typical treat rate to meet U.S. Steel 224 is 1.8 % by weight.

Additin RC 9410 is an low odoured additive package with good anti-stick-slip and demulsifying properties. A formulation with 1.8 % by weight Additin RC9410 in a mineral oil ISO VG 220 is approved by Cincinnati Milacron P-50.

Due to its very low smell and its well balanced EP/AW/CI composition Additin RC 9410 can beneficially be used as a completely formulated additive package for metal working oils.

**Recommended treat levels:**

- automatic machining: approx. 2%
- grinding: approx. 2%- drilling, turning: approx. 3%
- milling operations: approx. 4%
- deep drilling: approx. 5-7%
**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.