**Unofficial TECHNICAL INFORMATION SHEET**

**Additin® RC 9321**

**Additive Package**

**Description:**
Ashless multifunctional oxidation and rust inhibiting additive package for R&O oils, hydraulic fluids HL, gear oils CL according to:DIN 51524, part 1 (HL); DIN 51517, part 2 (CL); AFNOR NF E 48-603 (HL); Cincinnati-Machine P-38 (HL-32), P-55 (HL-46), P-54 (HL-68), P-57 (HL-150), P-62 (FC-10)- for turbine oils according to:DIN 51515, part 1 (L-TD), part 2 (L-TG); ISO 8068; Siemens TLV 9013 04/01; British Standard BS 489; General Electric GEK 32568 A/C; MIL-L-17672 D; CEGB Standard 207001; Brown Boveri HTGD 90117; U.S. Steel 120; Westinghouse Electric Corp. Turbine Oil Spec.;Alstom HTGD 90 117 V0001 S- for compressor oils according to:DIN 51506 (VBL, VCL, VDL); ISO / DP 6521 (DAA, DAB, DAH, DAG)

<table>
<thead>
<tr>
<th><strong>Composition</strong></th>
<th>combination of antioxidants, corrosion inhibitors, non-ferrous metal deactivators</th>
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</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>light brown, clear, low viscosity liquid</td>
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<tr>
<td><strong>Nitrogen</strong></td>
<td>approx. 3.6 % weight</td>
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<tr>
<td><strong>Phosphorus</strong></td>
<td>approx. 0.5 % weight</td>
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<tr>
<td><strong>Sulfur</strong></td>
<td>approx. 7.0 % weight</td>
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<tr>
<td><strong>Viscosity, 40°C (ASTM-D 445)</strong></td>
<td>approx. 80 mm2/s</td>
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<tr>
<td><strong>Density, 20°C (ASTM-D 1298)</strong></td>
<td>approx. 1000 kg/m3</td>
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</table>
Flash point, COC (ASTM-D 92)

> 130 °C

Mineral Oil Content

approx. 5 % weight

**Application** - R&O oils- hydraulic fluids HL
- turbine oils- gear oils CL- compressor oils - greases

Additin RC 9321 is an ashless additive package with outstanding oxidation and corrosion inhibiting properties. Additin RC 9321 is particularly recommended for use in the formulation of lubricants for which high performance demands have to be met:

- high oxidation stability- good thermal stability- excellent hydrolytic stability- no sludge formation- very low acid number- good protection against corrosion of steel and non-ferrous metals - good demulsifying behavior- good foam behavior

These properties can be obtained at low treat level in a broad range of different base oils, especially in PAO, HC, HVI and Group II base 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.