

Additin® RC 9321

Additive Package

Type

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)

Technical data*

Composition	combination of antioxidants, corrosion inhibitors, non-ferrous metal deactivators
Appearance	light brown, clear, low viscosity liquid
Nitrogen	approx. 3.6 % weight
Sulphur	approx. 7.0 % weight
Phosphorus	approx. 0.5 % weight
Viscosity, 40 °C (ASTM-D 445)	approx. 80 mm ² /s
Density, 20 °C (ASTM-D 1298)	approx. 1000 kg/m ³
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 behaviour
- good foam behaviour

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.

The recommended treat level is in the range of 0.3 to 0.6 % by weight.

Solubility	Soluble in mineral oils, PAO, HC, HVI and Group II base oils. However, it is necessary to verify the solubility in the base oils used and the compatibility with other additives.
Test results	see technical report
Packing unit	200 kg bung hole drums
Storage conditions	in a dry place at room temperature approx. 12 months. This product is liable to crystallization at low temperatures. If this occurs, gentle warming up to 40 - 50°C with agitation will ensure homogeneity of the product without adverse effects. Local overheating - above 60 °C - must be avoided.
Handling	Consult material safety data sheet (MSDS) for additional handling information on Additin RC 9321

® = registered trade mark * The analytical data are guide values. Additin RC 9321 is on EINECS and TSCA inventory.

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Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the

products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely rely on your own responsibility. Should, in spite of this,

liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.

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