Technical Data Sheet

Additin® RC 9320 — 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); 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.	
Technical data*	Composition	combination of antioxidants, corrosion inhibitors and non-ferrous metal deactivators
	Appearance	light brown, clear, low viscosity liquid
	Nitrogen	approx. 2.9 % weight
	Sulphur	approx. 1.0 % weight
	Phosphorus	approx. 0.6 % weight
	Viscosity, 40 °C (ASTM-D 445)	approx. 55 mm^2/s
	Density, 20 °C (ASTM-D 1298)	approx. 1000 kg/m^3
	Flash point, COC (ASTM-D 92)	approx. 135 °C
	Mineral oil content	approx. 5 % weight
Application	- R&O oils - hydraulic fluids HL - turbine oils - gear oils CL - greases Additin RC 9320 is an ashless additive package with outstanding oxidation and corrosion inhibiting properties. Additin RC 9320 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 paraffinic base conventional mineral oil e.g. Group I base oils. Depending on requirements the recommended treat level is in the range of 0.3 to 0.6 % by weight.
Solubility	Good 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.
Test results	Test results see Technical Reports
Packing unit	200 kg bunghole 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℃ with agitation will ensure homogeneity of the product without adverse effects. Local overheating - above 60 ℃ - must be avoided.
Handling	Consult material safety data sheet (MSDS) for additional handling information on Additin RC 9320.

® = registered trade mark
* The analytical data are guide values.
Additin RC 9320 is on EINECS and TSCA inventory.

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