

Additin® RC 9303

Additive Package

Type	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)	
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Technical data*	Composition	combination of phosphorus-sulphur compounds with oxidation and corrosion inhibitors
	Appearance	light coloured, clear liquid
	Nitrogen	approx. 2.5 % weight
	Phosphorus	approx. 1.5 % weight
	Sulphur	approx. 1.7 % weight
	Viscosity, 40°C (ASTM-D 445)	approx. 70 mm ² /s
	Density, 20°C (ASTM-D 1298)	approx. 970 kg/m ³
	Flash point, COC (ASTM-D 92)	approx. 130°C
	Mineral oil content	none

Application	<ul style="list-style-type: none"> - ashless high performance hydraulic fluids - compressor oils with antiwear properties <p>Additin RC 9303 is ideally suited for use in ashless hydraulic fluids for which the following high performance demands have to be met:</p> <ul style="list-style-type: none"> - 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 <p>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.</p>
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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.
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°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 9303.

® = registered trade mark * The analytical data are guide values. Additin RC 9303 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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