

Additin® RC 2317 EP Additive

Туре

EP additive; light coloured, low odoured, low viscosity, active sulphur carrier

Technical Data

Composition	sulphurized vegetable fatty acid esters mineral oil-free
Appearance	light brown, clear, low viscosity liquid
Colour (ASTM-D 1500)	typ. 4.5
Sulphur	approx. 17 % weight
Active sulphur (ASTM-D 1662)	approx. 8 % weight
Copper corrosion (ASTM-D 130) 5 % weight Additin RC 2317 in a paraffinic base oil, 3 h/100 °C	3a - 3b
Viscosity, 40°C (ASTM-D 445)	approx. 55 mm ² /s
Density, 20°C (ASTM-D 1298)	approx. 1.01 g/ml
Flash point, COC (ASTM-D 92)	> 180°C

Application

- medium and heavy duty cutting oils
- deep hole drilling oils
- honing oils
- grinding oils
- broaching oils

Additin RC 2317 is a light-coloured, near odourless, low viscosity sulphur carrier. It is used for manufacturing metalworking fluids for cutting operations.

Due to its low viscosity Additin RC 2317 is ideally suited for formulating metalworking fluids such as deep hole drilling and honing oils from which an excellent flushing effect is required. By virtue of specially selected raw material Additin RC 2317 exhibits a very low pourpoint and extended solubility in various base fluids compared to conventional sulphur carriers. Therefore Additin RC 2317 is ideally suited for metalworking oils based on hydrocrack oils.

The performance of metalworking fluids containing Additin RC 2317 can be increased by combination with zinc dithiophosphates, e.g. Additin RC 3038, phosphoric acid partial esters or ashless phosphorus-sulphur additives e.g.

RČ 3880.

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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

Paraffinic base oil, ISO VG 15							
	base oil, no additives	+ 2 % b. w. RC 2317	+ 5 % b. w. RC 2317	+ 10 % b. w. RC 2317	+ 15 % b. w. RC 2317		
Four-ball test (DIN 51350, part 2) weld load	600 - 700 N	1800 - 2000 N	2000 - 2200 N	2800 - 3000 N	3200 - 3400 N		
Four-ball test (DIN 51350, part 3) scar diameter 1h/300N	0.70 mm	0.50 mm	0.60 mm	0.63 mm	0.75 mm		
Four-ball test (ASTM D-2783) weld point LWI			200 kg 38 kg	250 kg 42 kg			
Load-carrying test according to Brugger load capacity	< 20 N/mm²	approx. 45 N/mm²	approx. 60 N/mm²	approx. 85 N/mm²	approx. 95 N/mm²		

Packing Unit

200 kg bunghole drums

Storage Conditions

In a dry place at room temperature approx. 24 months.

Handling

Consult material safety data sheet (MSDS) for additional handling information on Additin RC 2317.

® = registered trade mark * The analytical data are guide values. Additin RC 2317 is on EINECS and TSCA inventory.

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LANXESS Deutschland GmbH Business Unit Additives Kennedyplatz 1 D-50569 Cologne, Germany E-Mail: lubricant.additives@lanxess.com http://add.lanxess.com



