

## Additin® RC 2411

## EP Additive

<b>Type</b>	EP additive for metal working; light-coloured, low odoured inactive sulphur carrier	
<b>Technical data*</b>	Composition	sulphurized vegetable fatty oils and fatty acid esters, mineral oil-free
	Appearance	light brown, clear liquid
	Colour (ASTM-D 1500)	typ. 3
	Sulphur	approx. 9.5 % weight
	Active sulphur (ASTM-D 1662)	< 1 % weight
	Copper corrosion (ASTM-D 130) 10 % weight Additin RC 2411 in a paraffinic base oil, 24 h/100°C	1b
	Viscosity, 40°C (ASTM-D 445)	approx. 230 m <sup>2</sup> /s
	Density, 20°C (ASTM-D 1298)	approx. 0.97 g/ml
	Flash point, COC (ASTM-D 92)	> 180 °C
<b>Application</b>	<ul style="list-style-type: none"> <li>- metalworking fluids</li> <li>- greases</li> <li>- textile machine oils</li> <li>- slideway oils</li> </ul> <p>Additin RC 2411 is a light-coloured, very inactive sulphur carrier with excellent EP and AW properties. Due to its special production process Additin RC 2411 is especially suitable for the formulation of metalworking fluids for working of nonferrous metals and aluminum alloys. By virtue of specially selected raw materials Additin RC 2411 exhibits a high lubricity and good friction modifying properties.</p>	
<b>Solubility</b>	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 2411	+ 5 % b. w. RC 2411	+ 10 % b. w. RC 2411	+ 15 % b. w. RC 2411
Four-ball test (DIN 51350, part 2) weld load	600 - 700 N	1900 - 2000 N	2600 - 2800 N	3400 - 3600 N	3800 - 4000 N
Four-ball test (DIN 51350, part 3) scar diameter 1 h/300 N	0.70 mm	0.35 mm	0.45 mm	0.47 mm	0.50 mm
Four-ball test (DIN 51350, part 3) scar diameter 1 Minute/1000 N	welding	1.95 mm	1.65 mm	0.78 mm	
Load-carrying test according to Brugger load capacity	< 20 N/mm <sup>2</sup>	approx. 25 N/mm <sup>2</sup>	approx. 30 N/mm <sup>2</sup>	approx. 30 N/mm <sup>2</sup>	approx. 65 N/mm <sup>2</sup>
Falex Pin and Vee ASTM D-2670-88 load value		1750 lbs	2000 lbs	4250 lbs	4500 lbs

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<b>Packing unit</b>	200 kg bung-hole drums
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<b>Storage conditions</b>	In a dry place at room temperature approx. 12 months
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<b>Handling</b>	Consult material safety data sheet (MSDS) for additional handling information on Additin RC 2411.
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® = registered trade mark \* The analytical data are guide values. Additin RC 2411 is on EINECS and TSCA inventory.

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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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