

Additin® RC 3740

Antiwear Additive

Type

Ashless antiwear additive

Technical data*

| | |
|------------------------------|---|
| Composition | amine neutralized phosphoric acid ester of aliphatic alcohols |
| Appearance | light yellow, high viscosity liquid |
| Nitrogen | approx. 3.8 % weight |
| Phosphorus | approx. 9.0 % weight |
| Viscosity, 40°C (ASTM-D 445) | high viscosity |
| Density, 20°C (ASTM-D 1298) | approx. 970 kg/m ³ |
| Flash point, COC (ASTM-D 92) | approx. 150°C |
| Mineral oil content | none |

Application

- metalworking fluids of medium to heavy machining operations
- honing oils
- grinding oils
- broaching oils
- deep-hole drilling oils

Additin RC 3740 is an ashless antiwear and EP additive for metal-free metalworking fluids. It is preferably used in combination with sulphur carriers such as Additin RC 2415. The treatment levels are in the range 0.2 to 1.5 % by weight depending on application. Its use can enhance the surface finish of the workpiece and improve the tool life.

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

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| | Solvent-refined oil ISO VG 46 + 0.25 % weight Additin RC 3740 |
| Four ball tester (DIN 51350, part 3) 1 h/150 N 1 h/300 N | Scar diameter 0.33 mm 0.46 mm |
| FZG test, A 8.3/90 (DIN 51354, part 2) damage-load stage | 11 |
| | Mineral oil ISO VG 46 + 0.1 % weight Additin RC 3740 |
| Copper corrosion (ASTM-D 130) 3 h/100 °C 24 h/100 °C | 1a 1a - 1b |

Packing unit

180 kg bung-hole drums

Storage conditions

in a dry place at room temperature approx. 24 months

Handling

This product is irritant (R36/38), harmful (R22) and dangerous for the environment (R51/53).

Before using Additin RC 3740 it should be heated up to about 80 °C.

Local overheating above 100 °C - must be avoided.

Consult material safety data sheet (MSDS) for additional handling information on Additin RC 3740.

® = registered trade mark

* The analytical data are guide values.

Additin RC 3740 is on EINECS and TSCA inventory.



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