

Additin® M 10310

Antirust-Additive

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|------------------------|--------------------------------|---|
| Type | Ashless anticorrosion additive | |
| Technical data* | Composition | neutral, synthetic sulfonic acid ester based on natural raw materials |
| | Appearance | dark brown liquid |
| | Viscosity, 40°C (ASTM-D445) | approx. 800 mm ² /s |
| | Density, 20°C (ASTM-D 1298) | approx. 0,95 g/ml |
| | Flash point, COC (ASTM-D 92) | > 180°C |
| | Mineral oil content | approx. 10% weight |

- Application**
- medium and long term rust preventative oils and emulsions
 - Dewatering fluids
 - metalworking fluids (cutting and forming processes)
 - greases
 - mould release oils
 - environmentally friendly lubricants based on esters and rapeseed oil

Additin M 10310 is an ashless, amine-free, high molecular weight anticorrosion additive based on natural raw materials. It shows outstanding anticorrosion properties in rape seed oil, esters and mineral oil that exceed the properties of standard sodium-, calcium- or barium sulphonates. Different to most metal containing sulphonates, Additin M 10310 outperforms also as an highly effective dewatering additive.

Additionally Additin M 10310 exhibits high lubricity, antiwear and EP-properties. It is less volatile than typically used metal sulphonates.

Additin M 10310 is non-staining and easily removable by solvents or mild alkaline cleaners/degreasers. Due to its water replacing properties Additin M 10310 can even be used to improve the degreasability. The non-ionic structure of

Additin M 10310 prevents the formation of metal soaps in alkaline degreasers. Additin M 10310 shows outstanding compatibility even with highly sensitive types of cataphoretic paints.

Solubility Soluble in rape seed oil, esters and most mineral oils. However, it is necessary to verify the solubility in the base oils used and the compatibility with other additives.

Test results

| Rust preventatives | Refined rape seed oil without additive | Refined rape seed oil +5% weight M 10310 | Solvent-refined oil + 5% weight M 10310 |
|---|--|--|---|
| Humidity cabinet Steel grade QQ S 698, polished (ASTM-D 1748) | after 2h severe corrosion | after 2400h no corrosion | after 480h no corrosion |
| Sea water immersion test Steel grade CK 15 (DIN 51358) | severe corrosion | no corrosion | no corrosion |
| Hydrobromic acid immersion test Steel grade CK 15 (DIN 51357) | severe corrosion | no corrosion | no corrosion |
| Kesternich cabinet (condensed water alternating atmosphere)Steel grade ST 1405 (DIN 51386, part 1) | after 1 cycle severe corrosion | after 14 cycles no corrosion | after 9 cycles no corrosion |

| Lubricating greases | Lithium grease based on 12-hydroxystearate/mineral oil without additive | Lithium grease based on 12-hydroxystearate /on 12-hydroxystearate/mineral oil + 0,4% weight M 10310 |
|--|---|---|
| Emcor test (IP 220) distilled water | severe corrosion | no corrosion |

Packing unit 200 kg bung hole drums

Storage conditions in a cool and dry place 6 months

Handling Consult material data sheet (MSDS)
for additional handling information on Additin M 10310.

® = registered trade mark

* The analytical data are guide values.

Additin M 10310 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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