

REWOCOROS® AC 261

Product description

REWOCOROS® AC 261 is a modified fatty acid diglycol amine (DGA) condensation product.

Physical properties

Appearance 20°C	clear, brown liquid
Amine value	115 – 130 mg KOH/g
Acid value	27 – 33 mg KOH/g
Colour to Gardner	≤ 12
Water content	≤ 2 %
Solubility	Water: dispersible Mineral oil: soluble after addition of non-ionic surfactants or solubilizer

Application

REWOCOROS® AC 261 is used as corrosion inhibitor and co-emulsifier for water based (emulsifiable) metal working fluids (MWF).

REWOCOROS® AC 261 is especially applicable as corrosion inhibitor for non-ferrous metals such as aluminum, but can also be used for ferrous metals.

In order to prevent cobalt or copper leaching it is advisable to avoid the presence of certain commonly used metalworking amines such as monoethanolamine (MEA), diethanolamine (DEA) or triethanolamine (TEA).

Due to the presence of diglycolamine (DGA) which shows a significantly lower tendency to dissolve cobalt or copper, REWOCOROS® AC 261 is particularly well-suited for its use in MWF that are applied for processing of yellow metals and hard metals (carbide).

Properties / Benefits

REWOCOROS® AC 261

- provides good corrosion inhibiting properties on aluminum and its alloys as well as on ferrous metals
- increases stability of water-mixed MWF due to excellent co-emulsifying properties and thereby enables reducing the total emulsifier content while maintaining emulsion stability
- shows a significantly lower tendency to leach cobalt or copper than other commonly used metalworking amines
- allows high reserve alkalinity of water-mixed MWF and thus excellent pH buffer capacity
- improves wetting and rinsing properties of water-mixed MWF
- enhances lubricating effect of coolant emulsions
- contains free amounts of diglycolamine (DGA) but is free of monoethanolamine (MEA) and therefore, shows a lower volatility than MEA based amides
- has a low foaming tendency
- is a clear liquid product that conduces to easy blending processes
- is not known to show any detrimental effect on the finished parts
- is free of secondary amines and complies with German TRGS 611

Dosage / Handling

REWOCOROS® AC 261 should be incorporated into the MWF concentrate.

Depending on other components (such as surfactants, amines, fatty acids) which are present in the MWF, the required dosage of REWOCOROS® AC 261 may vary.

To achieve sufficient corrosion protection properties we recommend for first tests a dosage of 0.25 % REWOCOROS® AC 261 related to the water-mixed MWF.

To solubilize REWOCOROS® AC 261 in mineral oils or ester oils, we recommend the addition of small amounts of fatty acids or glycols which will mostly lead to clear MWF concentrates.

Registration status

The ingredients of REWOCOROS® AC 261 are listed in the following inventories:

EINECS, TSCA, AICS and China

Storage stability

In originally sealed containers REWOCOROS® AC 261 can be stored for at least 1 year at temperatures between 15 and 40 °C.

Storage below 10 °C may result in cloudiness or crystalline precipitation.

By warming up the product becomes clear and has to be completely homogenized by gentle stirring without affecting the quality.

Packaging

200 kg steel drum (800 kg per pallet)

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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Trademark notice and legal notice

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