Korrodex[®] 332

Corrosion inhibitor for the protection of closed cooling systems and heating systems containing aluminium alloys

APPLICATIONS

Korrodex[®] 332 is a corrosion inhibitor for closed cooling and heating systems with aluminium, steel and copper alloys. The product is effective at a pH range of 7.5 to 9.0. The product is compatible with antifreeze compounds such as ethylene glycol.

Korrodex[®] 332 is also suitable for use in closed cooling systems where low conductivity of cooling water is required.

DESCRIPTION

Korrodex[®] 332 consists of polycarboxylic acid, molybdate, amine inclusions and copper inhibitor.

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Form:	From transparent
	to slightly cloudy
	yellowish liquid
Density (20°C/68°F):	$1,10 \pm 0,02 \text{ g/cm}^3$
pH (1% liquid):	$8,4 \pm 0,3$
Freezing point:	below 5 °C
Viscosity:	< 30 mPa/s
MoO4 2-:	$7,3 \pm 0,3\%$
Mo6-:	$4,4 \pm 0,2\%$
Electrical conductivity	1000 g/cm ³ :
(deionized water):	135µS/cm
	3000 g/cm ³ : 370
	μS/cm
	5000 g/cm ³ :
	600µS/cm

ENVIRONMENTAL IMPACT

Korrodex[®] 332 is neither volatile nor combustible. Detailed information can be found in the safety data sheet.

ACTION

Korrodex[®] 332 effectively protects steel, aluminium and copper alloys from corrosion:

1. Reduces the corrosion of steel and aluminium by creating a protective film of molybdenum on their surface.

- 2. Inhibition of corrosion of copper and copper alloys occurs due to the creation of a protective multilayer film.
- 3. Protects against CaCO3 precipitation due to the components of stabilization of hardness (stepped effect of phosphonic and polycarboxylic acids).

DOSAGE

In circulating water, the concentration of Korrodex[®] 332 should be the following:

- For heating systems: 5000 g/m³
- For closed cooling systems: 1000 3000 g/m³

USAGE

Korrodex[®] 332 is an alkaline product, so all parts of the system in contact with it must be made of alkali-resistant materials. Synthetic materials (PE or PVC) are suitable. The product should be introduced into the system at or before the highest mixing point. Korrodex[®] 332 has been tested and checked by TÜV Bayern (Germany).

ANALYTICAL ANALYSIS

The amount of Korrodex[®] 332 in the system can be determined by the concentration of MoO42-, i.e. the atomic absorption spectrometer (AAS):

1 g/cm³ Korrodex 332 = 0.073 g/cm³ MoO42-1 g/cm³ MoO42- = 13.7 g/cm³ Korrodex[®] 332

The amount of molybdenum can be roughly determined using special analysis kits, e.g. Merckoquant Nr. 10049 Merck Corp., Darmstadt, Germany.

PRECAUTIONS

Please read safety data sheet.

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