

Application

ci 21 is an inhibitor for closed and semi-open cooling and heating systems. ci 21 is used with deionized water.

The corrosion inhibition is effected by the formation of a protective layer. Therefore, oxygen does not impact the efficiency. In particular, corrosion is also prevented if the product is not used temporarily.

The inhibitor **must not be used** in combination with oxidizing biocides (such as ba 4, ba 5, INWASAN C 1)! INWACIDE C-3612 or INWACIDE C-3620 can be used.

Properties

ci 21 inhibits all steel materials and aluminium. The pH value of the circulating water should be pH > 7.0. The polymer in ci 21 stabilizes residual hardness and disperses existing deposits such as lime, iron, and aluminium oxides as well as insoluble solids. The concentration of ci 21 at the time it is being used depends on the maximum process temperature, the flow rate, as well as the salt content and is determined individually by your technotrans engineer.

ci 21 dyes the water intensely dark brown and forms a black coating on the material surfaces.

Appearance:	brownish liquid
Active ingredients:	Molybdates, non-ferrous metal inhibitor, polymer, phosphonate, organic inhibitors
Density (20°C):	1.1 kg/dm ³
pH value:	8 - 10
Solubility:	unlimited

The information given here is not a product specification; it is for information purposes only.

Dosing

The dosage of ci 21 depends on the existing system water volume and the given process conditions. The default application concentrations for ci 21 are

- 4,000 g/m³ in systems with regular water exchange and maximum process temperature of 225°C.

- 6,000 - 7,000 g/m³ in systems with low water exchange and maximum process temperature of 225°C.

The product content is determined on-site using the Mo test kit (gwk Item No.: 8110575). The target concentration of molybdenum Mo⁶⁺ is 50 mg/l at a dosage rate of 4,000 g/m³, 70 – 80 mg/l at a dosing rate of 6,000 - 7,000 g/m³.

Handling

Suitable personal protective measures are provided in the safety data sheet.

Important information

A Material Safety Data Sheet is included with each of our products. Material Safety Data Sheets contain important information on occupational health and safety, on the basis of which our customers can generate appropriate work instructions to protect their employees and customers and prevent harmful effects when handling the substances. Before using the technotrans products in your system, make sure that the material safety data sheets have been read and understood by your supervisory staff and the appropriate employees.

Shelf life/storage

1 year in unopened container.

3 months in opened container.

The data applies to the following storage conditions: cool (5 - 20°C), frost-free, dark, and dry conditions.

How the product is supplied

10 kg canister, 25 kg canister, 200 kg barrel

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