



Specification

Thermogard HT - Specification

Thermogard HT is an environmentally friendly anticorrosive concentrate for heating and cooling systems. It is used if metallic materials are to be protected from corrosion and frost protection is not necessary. It is free of nitrites, phosphates, amines, silicates, borates and heavy metals. Thermogard HT is biodegradable and environmentally friendly. The heat transferability and the viscosity of the water are not affected by Thermogard HT. Thermogard HT is used in, for example, heating systems which are subject to oxygenation despite their closed design (e.g. due to permeable plastics or sealing materials).

Product data

Chemical characterisation:	Corrosion inhibitors (OAT)
Applied concentration:	4% in water
Operating temperature range:	+5 to +95 °C
Areas of application:	Heating systems, cooling systems, air conditioners, biogas plants, block heating stations, heat recovery plants, industrial and production plants, anticorrosives in water and heating circuits, anticorrosives in the area of geothermal energy if no frost protection is required.

Density (20 °C)	1,14 g/cm ³
pH value	8,1 - 8,5
Boiling point (1013 mbar)	from 100 °C
Form	Liquid
Colour	Yellowish

Corrosive protection

Thermogard HT contains a complex combination of corrosion inhibitors which optimally protect metals from corrosion. This anticorrosive protection can be used for all important metals which are generally used for the construction of heating and cooling systems and industrial plants. Installations made of copper, brass, solder, grey iron, aluminium, steel and iron are optimally protected from corrosion even if they are used in multi-metal installations. Plastics and sealing materials are resistant to Thermogard HT.

Application

Thermogard HT is delivered in liquid form and can therefore be easily dissolved in water. The applied concentration is 4% (4% Thermogard HT + 96% water).

Application guidelines

The water that is used for producing the solution should have a maximum hardness of 25 °dH and a maximum chloride content of 100 mg/l. Generally, tap water fulfils these requirements. Galvanised components are to be avoided, especially at higher operating temperatures. When installing the plant, it must be ensured that the future operation is not interrupted by circulatory disturbances caused by air cushions or debris. The plants that are operated with Thermogard HT are to be installed as closed systems and are to be filled completely and vented directly after the pressure test has been carried out. Gas and air cushions are to be removed immediately. Breathers are to be applied in such a way that they constantly keep the system free from air and oxygen and no air can be sucked in in case of low pressure. If an existing plant is to be filled, the corrosion status should be checked beforehand. Before a system that is damaged by corrosion is filled, it must be completely reconstructed.

Other

Thermogard HT is only used in systems which do not require any frost protection. Glysofor is used in areas that are subject to frost (<http://www.glysofor.de>).

Packaging sizes

- 10 kg canister
- 25 kg canister
- 30 kg canister
- 220 kg barrel
- 1.000 kg IBC
- 24.000 kg tank vehicle

Chem. characterisation	Combination of corrosion inhibitors, dissolved
Appearance	Yellowish liquid
Packaging	Canisters / barrels / IBCs / tank vehicles
ADR	KI 0 number
WPC	1
Labelling	---

This data relates to the correct and appropriate application of our products, with due consideration of the professional standards and regulations of the area of application. It is for informational purposes only and does not absolve the obligation to carry out the due materials testing upon arrival. The data is based on our current state of knowledge and is not meant to guarantee specific properties. No general or legally binding statement on certain features, in a concrete application, can be derived from the above data. It is meant to describe our products with regard to their composition and offer application advice. Any industrial property rights of third parties and the suitability for a special application purpose are to be observed and verified by the user.

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