

TOPTHERM SOLAR 12

READY-TO-USE HEAT-TRANSFER FLUID FOR THE FILLING OF SYSTEMS WITH SOLAR PANELS SUITABLE FOR HIGH SUMMER TEMPERATURES AND MODERATE FREEZE RISK

Description

TOPTHERM SOLAR 12 is a fluid specially formulated for the filling of high heat load solar-panel systems with natural and forced circulation, also under vacuum, containing propylene glycol (non-toxic), water and inhibitors. In the formulation of **TOPTHERM SOLAR 12** there are specific corrosion inhibitors, which protect metals normally used in solar plants (steel – copper –brass) and limit corrosive phenomena, ageing and saline deposits for long terms. These inhibitors are compatible with systems, which reach very high temperatures, also over 200 ° C. The permanence at high temperatures (stagnations) of **TOPTHERM SOLAR 12** causes the consumption of inhibitors because of thermal decomposition of propylene glycol; therefore it is necessary to verify periodically (annually, before winter) the presence of the inhibitors, controlling the colour of the fluid and/or its pH. **TOPTHERM SOLAR 12** has originally a rose-violet colour that disappears when the pH value has fallen under 8,3; the discolouration indicates the consumption of the majority of inhibitors and that protection conditions are at the minimum limit; therefore the solution must be replaced integrally. The inhibitors agents contained in **TOPTHERM SOLAR 12** are thermally stable at the temperature of 300° C.

***Fluid with rose-violet colour that gradually disappears and indicates the pH**

- **Safe (non-toxic) and ready-to-use.**
- **It protects metallic surfaces from corrosion.**
- **It prevents saline-scaling formation.**
- **It allows reaching high stagnation temperatures.**
- **It does not contain nitrites, phosphates and heavy metals.**
- **Thermally stable at 300° C.**

How to use

TOPTHERM SOLAR 12 must not be diluted and it can be integrated only with the same product if there is any need.

Physical and chemical properties:

Propylene glycol:	25%-28%
Solution pH:	9,2-10
Alkalinity reserve:	ml HCl 01, N 15
Freezing point:	-12°C

Environmental and safety information

For more details about a safe manipulation and storage of the product, refer to **TOPTHERM SOLAR 12** MSDS.

Available package

5 kg or 20 kg cans

* The specific function is registered at the patent office under no. 1390461.

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