



# A superior high performance energy efficient heat transfer fluid suitable for use in all kinds of industrial process heating applications.

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product name

Globaltherm® J  
Heat transfer fluid

### Company Information

Globaltherm, Cold Meece Estate, Cold Meece, Stone, Stafford, ST15 0SP, UK

### Emergency telephone

+44 (0) 1785 760555

### Web

[www.globaltherm.org](http://www.globaltherm.org)

## 2. PRODUCT DESCRIPTION

A superior high performance, energy efficient heat transfer fluid suitable for use in all kinds of industrial processes.

Globaltherm® J Heat transfer fluid is a mixture of isomers of an alkylated aromatic specially engineered for demanding low-temperature applications in liquid phase pressurized systems. Globaltherm® J Heat transfer fluid offers outstanding low-temperature pumpability and excellent thermal stability for

protection against accidental overheating.

Used fluid may be disposed of through a number of environmentally acceptable methods, such as used oil recycling or heavy fuels burning.

*NOTE: When draining hot fluid after flushing, normal safety precautions should be taken to prevent burns and the risk of fire.*



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**NON-CORROSIVE THERMAL FLUID**

For use in a variety of Industrial Process Applications

## PRODUCT INFORMATION

### 3. APPLICATIONS

Globaltherm® J Heat transfer fluid is a heat transfer agent suitable for applications requiring single fluid heating and cooling.

Globaltherm® J Heat transfer fluid is recommended for use in a temperature range from  $<-80^{\circ}\text{C}$  up to a maximum bulk temperature of  $315^{\circ}\text{C}$  in the liquid phase.

Globaltherm® J Heat transfer fluid can also be used in in vapour phase systems operating from  $181^{\circ}\text{C}$  to  $315^{\circ}\text{C}$ .

### 4. SERVICE CONSIDERATIONS

Globaltherm® J Heat transfer fluid is just one of the comprehensive range of high performance heat transfer fluids offered by Global Heat Transfer for the temperature range from  $-90$  to  $600^{\circ}\text{C}$ : Detailed information is available on request. Global Heat Transfer has more than 25 years' experience in the field of heat transfer technology. This knowledge is available to you, should you have any questions or problems. Whether you have questions about the choice of Globaltherm® Heat transfer fluid for a certain application, about system design, troubleshooting, safety issues or specification problems, our technical experts are here to help you. Call our technical team on +44 (0) 1785 760555.

An analytical routine check of the heat transfer medium, while it is hot and circulating, should be part of the routine maintenance plan. This check should be carried out at least once a year, preferably three to four times a year. Testing can be carried out by Global Heat Transfer - via the Thermocare® lifecycle management programme - to all users of Globaltherm® Heat transfer fluids. The thermal fluid parameters which are measured will allow our experts an accurate assessment of the condition of the fluid. This way, Thermocare® testing and analysis programmes ensure prolonged and trouble-free operation of the fluid. Changes to the condition of the fluid are quickly detected and managed with Thermocare® and can be avoided in time before more extensive damage (to both system and fluid) and further costs are incurred.

Phone: +44 (0) 1785 760555; fax: +44 (0) 1785 760444 to ask about Thermocare® preventative maintenance programmes and heat transfer fluid testing and analysis.



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### 5. COMPATIBILITY

Adding Globaltherm® J Heat transfer fluid as a top-up to used fluids may help to increase fluid life (i.e., aromatic types). Laboratory testing is recommended before topping-up the system with this product. Please contact the technical team for more information about lab services and sample and analysis on +44 (0) 1785 760555.

### 6. HEALTH AND SAFETY

The use and handling of Globaltherm® J Heat transfer fluid have caused no adverse effects which can be attributed to the heat-transfer medium. Nevertheless, the usual guidelines and re-recommendations concerning organic chemicals or high-boiling solvents should be observed.

Details are to be found in the latest Safety Data Sheet for Globaltherm® J Heat transfer fluid. Please contact the technical team on +44 (0) 1785 760555 for more information.

## 7. PHYSICAL AND CHEMICAL PROPERTIES

| Parameter                | Unit                     | Code (ASTM/ISO/DIN) | Result                          |
|--------------------------|--------------------------|---------------------|---------------------------------|
| Operating Range          | °C (°F)                  | N/A                 | <-80 - 315°C<br>(<-110 - 600°F) |
| Appearance               | N/A                      | N/A                 | Clear, colourless liquid        |
| Density at 25°C          | kg/m <sup>3</sup>        | ASTM D4052          | 860                             |
| Kin. Viscosity at 40°C   | mm <sup>2</sup> /s (cSt) | NTR                 | 0.70                            |
| Kin. Viscosity at 100°C  | mm <sup>2</sup> /s (cSt) | NTR                 | 0.40                            |
| Boiling point            | °C                       | NTR                 | 181                             |
| Fire Point               | °C                       | ASTM D92            | 60                              |
| Flash point Closed       | °C                       | ASTM D93            | 57                              |
| Auto ignition point      | °C                       | ASTM E659-78        | 420                             |
| Average molecular weight | NTR                      | NTR                 | 134                             |

Note: The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This edition supersedes all previous editions and information contained within them. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product. Abbreviations: OC, open cup test; COC, Cleveland open cup test; and, NTR, no test reported.

## 8. OTHER INFORMATION

PI Creation Date December 2017 (#1) Revision date NA