



# RODUTHERM 62

Excellent thermal stability synthetic heat transfer fluid | Technical Data Sheet

## Introduction

Rodutherm 62 is a high-purity synthetic aromatic compound designed for use in heat transfer systems between -20°C and 350°C, with excellent heat transfer and flow performance under high temperature conditions. Rodutherm 62 has superior thermal stability and oxidation resistance compared to other competing brands. Its unique performance in preventing the formation of solid particles and coke deposits can meet the low-pressure safety operation requirements of liquid-phase heating systems, resulting in long service life and lower operating costs.

## Benefits

- **Excellent Low-Temperature Characteristics:** Rodutherm 62 has a low pour point and excellent low-temperature fluidity, making it suitable for use as an energy-efficient heat transfer fluid over a wide temperature range.
- **Outstanding Thermal Stability:** The unique compositional structure of Rodutherm 62 gives it outstanding thermal stability, allowing for long-term, reliable operation at up to 350°C.
- **Excellent Safety:** The absence of foreign matter during production and the high purity of the raw material ensure low sulfur, low chlorine, and non-corrosive characteristics. It is a colorless, odorless aromatic hydrocarbon compound with low toxicity, is environmentally friendly, and causes basically no contact damage to the human body.

## Typical Properties

| Property                               | Typical Value |
|----------------------------------------|---------------|
| Appearance                             | Clear liquid  |
| Maximum film temperature               | 355°C         |
| Normal film temperature                | 333°C         |
| Flash point (O.C)                      | 171°C         |
| Flash point (C.C.)                     | 160°C         |
| Autoignition temperature               | 407°C         |
| Pour point                             | -42°C         |
| Coefficient of thermal expansion@200°C | 0.001000/°C   |
| Kinematic viscosity@-17°C              | 300 cSt       |
| Kinematic viscosity@40°C               | 10.7 cSt      |
| Kinematic viscosity @100°C             | 2.52 cSt      |
| Density@25°C                           | 951.1 kg/m³   |
| Acid value                             | <0.2 mgKOH/g  |
| Average molecular weight               | 252           |
| Copper Corrosion                       | <<1a          |
| Moisture content                       | ≤200 ppm      |
| Chlorine content                       | <10 ppm       |
| Recommended temperature for use        | -7°C ~ 350°C  |

## Liquid Properties

| °C  | kPa   | kJ/(kg·K) | W/(m·K) | kg/m <sup>3</sup> | mm <sup>2</sup> /s |
|-----|-------|-----------|---------|-------------------|--------------------|
| -40 |       | 1.77      | 0.1279  | 997               | 21316              |
| -20 |       | 1.83      | 0.1263  | 982               | 1206               |
| 0   |       | 1.89      | 0.1246  | 968               | 103                |
| 20  |       | 1.95      | 0.1230  | 955               | 25.4               |
| 40  |       | 2.00      | 0.1213  | 940               | 10.9               |
| 60  | 0.005 | 2.05      | 0.1196  | 926               | 5.80               |
| 80  | 0.02  | 2.10      | 0.1177  | 911               | 3.66               |
| 100 | 0.06  | 2.14      | 0.1158  | 897               | 2.52               |
| 120 | 0.15  | 2.18      | 0.1139  | 882               | 1.85               |
| 140 | 0.38  | 2.23      | 0.1120  | 867               | 1.41               |

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**RODUTHERM 62 — Technical Data Sheet** The data presented is typical and subject to normal manufacturing variation.  
For product safety information, please refer to the Safety Data Sheet.