

# RHODORSIL® OIL 550

## ORGANO FUNCTIONAL SILICONES

### Description

**RHODORSIL OIL 550** is a clear, low viscosity silicone fluid. Features of this fluid include :

- Serviceable temperature range of - 50 °C to 250 °C .
- High flash point (300 °C).
- Reduced variation of viscosity with temperature.
- Low volatility.
- Good resistance to oxidation and gumming (or gelling).
- Good heat transfer characteristics.

### Applications

**RHODORSIL OIL 550** is being used in many different applications, including :

#### As a lubricant :

- Base oil for high temperature ball bearing greases.
- Lubricating oil for clockworks submitted to weathering or to high temperatures.
- Impregnating oil for sintered bronze bearings in small electric motors and other mechanisms exposed to high temperatures and weathering.
- Lubricating oil for plastic gearing.

#### As a heat transfer medium :

- Heat finishing baths for specialty metals.
- Fluid for laboratory apparatus.
- Heat exchange fluid (-50°C to + 250°C).
- Heat exchange fluid for high temperature instrument calibration baths.

### Characteristics

- Colour ..... colourless
- Viscosity at 25 °C, mm<sup>2</sup>/s, approx. ....125
- Specific gravity at 25 °C, approx. ....1.065
- Flash point, °C, approx. ....300
- Freezing point, °C ..... - 50
- Refractive index at 25 °C, approx. ....1.495
- Surface tension at 25 °C, mN/m, approx. ....24.5

# RHODORSIL<sup>®</sup> OIL 550

- Vapor pressure at 200 °C, mbar, approx. .... 1.33.10<sup>-2</sup>
- Expansion coefficient between 25 °C and 100 °C,  
approx. .... 7.5 x 10<sup>-4</sup>
- Specific heat between 40°C and 200°C J/g.K approx . .... 1.50
- Thermal conductivity, w/m.K approx. .... 0,15
- Viscosity, mm<sup>2</sup>/s, approx. :
  - at 100 °C ..... 20
  - at 35 °C ..... 84
  - at 25 °C ..... 125
  - at - 30 °C ..... 22,000

## Packaging

RHODORSIL OIL 550 is supplied in 25 kg and 200 kg drums.

## Storage and shelf life

When stored in its original packaging at a temperature of between -20°C and +50°C, **RHODORSIL OIL 550** may be stored for up to 36 months from its date of manufacture (expiry date).  
Comply with the storage instructions and expiry date marked on the packaging.

Past this date Bluestar Silicones no longer guarantees that the product meets the sales specifications.

## Safety

Consult the Safety Data Sheet for **RHODORSIL OIL 550**.

Visit our website [www.bluestarsilicones.com](http://www.bluestarsilicones.com)

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### Warning to the users

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