



Technical Data Sheet

Brand	Calsil
Market	Chemicals
Product name	Calsil IMP 550

1. Product Description

A methylphenylpolysiloxane fluid with low viscosity.

2. Key Properties

- Base ingredient in a large number of industrial formulations
- Serviceable temperature range of -50°C to 250°C
- Low volatility

3. Benefits

- Good resistance to oxidation and gumming (or gelling)
- Good heat transfer characteristics
- Reduced variation of viscosity with temperature
- Good heat transfer characteristics

4. Applications

Calsil IMP 550 is being used in many different applications as fluid with very good heat stability. :

As 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 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

5. Typical Properties (not for sales specifications)

Properties	Units	Values
Color		Colorless
Viscosity	mm ² /s at 25°C	125
Specific gravity at 25°C		1,065
Flash point (open cup)	°C	300
Freezing point	°C	-50
Refractive Index at 25°C		1,495
Surface Tension at 25°C	mN/m	24,5
Vapor pressure at 200°C	Mbar	1,33.10 ⁻²
Expansion coefficient between 25°C and 100°C		7,5.10 ⁻⁴
Specific Heat between 40°C and 200°C	J/g.K	1,50
Thermal conductivity	W/m.K	0,15

Viscosity, mm²/s, approx.:

at 100°C	: 20
at 35°C	: 84
at 25°C	: 125
at -30°C	: 22.000

6. Handling

This document does not contain safety precautions. Before handling this material, please read the Material Safety Data Sheet, check the label on the container, and conform to the safety, physical and hazard guidelines and precautions. The Material Safety Data Sheet is available from your nearest CALDIC office.

7. Storage and Shelf Life

This product should be stored in its original unopened containers at a temperature above 0°C and below 35°C. It can be used within the 36 months following its production date.

8. Packaging

Available in 1.000 kg IBC, 200 kg Drums and 25 kg Pails.


9. Restrictions

This ingredient is solely proposed in technical applications, It is not suitable to be used in medical, human injection or pharmaceutical applications.

10. Limited Warranty PLEASE READ CAREFULLY

- The information herein is offered in good faith. It is believed to be accurate at the time of shipment.
- It should not be used as a substitute for the customer's test, the customer bears the responsibility to ensure that the product matches the intended application is safe and achieves the desired benefits.
- The product warranty is limited to the refund value of the purchase or the replacement only when it is demonstrated that the product is out of the agreed sales specifications.
- Calsil is a registered trademark of CALDIC BV. All rights reserved.

For more information, please contact our nearest office

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