



# Technical Data Sheet

**Brand** Calsil  
**Market** Food Processing  
**Product name** Calsil FCF 50 – 1.000

## 1. Product Description

A non-volatile fluid composed of polydimethylsiloxane polymer.

## 2. Key Properties

- Base ingredient in a large number of industrial formulations
- Very low surface tension
- Soluble in most organic solvents and spray propellants
- Stable physical properties from -40° to +200°Celsius

## 3. Benefits

- Excellent wetting
- High performance lubricant
- Excellent release, gloss and water-repellence
- Chemically inert, odourless, colourless, non-stain, non-toxic

## 4. Applications

May be used in a wide range of industrial and regulated applications :

- as lubricant in plastic and elastomer processing, heat and electrical insulation, mechanical engineering fluid, and mold release.
- Formulated: in a variety of emulsified and dispersed forms such as textile and leather thread, fabric and leather processing and finish, foam prevention and anti-foams, cleaning and polish, lubricants and release agents.

## 5. Typical Properties (not for sales specifications)

Properties	Units	FCF 50	FCF 100	FCF 350	FCF 500	FCF 1.000
Appearance		Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid
Viscosity	mm <sup>2</sup> /s at 25°C	50	100	350	500	1.000
Specific gravity	At 25°C	0,960	0,964	0,969	0,970	0,970
Refractive Index	At 25°C	1,402	1,403	1,403	1,403	1,403
Flash Point	°C, Open cup	>318	>326	>326	>326	>326
Surface Tension	Dynes/cm	20,8	20,9	21,1	21,2	21,2

## 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 the above listed applications, in food-contact. 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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