



Technical Data Sheet

CALSIL GREASE 33

Brand	CALSIL
Market	Machinery & Equipment
Product name	CALSIL GREASE 33

1. Product Description

CALSIL GREASE 33 consists of a Polysiloxane methylphenyl fluid with lithium soap.

2. Key Properties

- Compatible to extreme temperatures (from - 70 °C up to + 180 °C).
- NLGI consistency : N.2
- Low variation of the consistency in temperature

3. Benefits

- Resistance to heat: Slight lowering of viscosity with increasing temperature but does not decompose and gives a long service life.
- Very little change in consistency with temperature: does not stiffen when cold, does not thin out at high temperatures.
- Very good stability especially in contact with water and most corrosive media.
- Negligible effect under vacuum: no change in consistency.

4. Applications

- Greasing of ball bearings or moving parts operating under severe weather conditions or working at extreme high or low temperatures
- Greasing of precision equipment in which the grease consistency must be nearly constant
- Lubrication of ball-bearings which must operate at the same speed under very low to very high temperatures

Typical Properties (not for sales specifications, please contact us prior to writing sales specs)

Properties	Units	Values
Chemical composition		Polysiloxane methylpheny and lithium soap
Appearance		Filamentous fluid grease
Color		Light brown
Worked penetration at 25 °C ASTM D 217 – 68		265-295
NLGI consistency		N.2
Specific gravity at 25 °C approx		1.03
Freezing point	°C	-70
Boiling point	°C	ND
Flash point	°C	>250
Drop point	°C	210
Service range	°C	-70 +180

5. How to Use

It is recommended to be applied on clean and dry surfaces (degreased if necessary).

CALSIL GREASE 33 could be applied with a brush, with a paint brush, with a spatula or with a paste gun.

6. Remarks

- CALSIL GREASE 33 should not be applied to surfaces which are to be painted.
- CALSIL GREASE 33 is not recommended for the lubrication of taps and valves for oxygen systems. This is because silicones in contact with oxygen under pressure may cause explosions.

7. Compatibility

Silicone Oils and Phenyl Trimethicone	Compatible
Aliphatic Solvents	Soluble
Aromatic Solvents	Soluble
Water	Insoluble
Mineral Greases	Not compatible
EPDM-EPM-NBR-SBR-NR-IR-BR-IIR	Compatible
Gas	Not compatible
Contact with drinking water	None
Water washout resistance	None
Resistance to fuels (oil, gasoline, Diesel oil, ...)	None
Resistance to polar liquid	Yes
Resistance to no polar liquid	None

8. 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.

9. Storage and Shelf Life

This product should be stored in its original unopened containers at a temperature between +2 °C and + 40 °C. It can be used within the 18 months following its production date.

10. Packaging

Available in

- 5 Kg pails
- 25 Kg pail on request

11. Restrictions

This ingredient is solely proposed in the above listed applications.

It is not suitable to be used in medical, human injection, pharmaceutical or food applications.

12. 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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