

# GREASIL MS 12

## SILICONE COMPOUND GREASIL

MS 12 is a Silicone Grease based on Polydimethylsiloxane for lubrication, dielectric, heat dissipater.

### Characteristics

Appearance:	paste
Colour:	White
Density:	2,2 g/cm <sup>3</sup>
Application temperature:	- 55 +220° C
Static Penetration:	220-270
Dynamic Penetration:	max 280
Evaporation loss:	<2% after 24 hours at 200° C
Oil separation:	<4% after 24 hours at 200° C
Thermic conductivity:	1·10 <sup>-3</sup> cal/cm·s·°C (0,51 W/m·K)
Dielectric strenght:	18 Kv/mm
Dielectric Constant:	3,5 a 1kHz
Dissipation Factor	0,0006 to 1Hz
Specific Resistance	< 1·10 <sup>13</sup> (13) Ohm*cm
Flash point:	> 310° C
Dilution:	hydrocarbon-chloride-tuluol

### Application

GREASIL MS12 is a silicone fluid. Thanks to its properties of chemical inertia, oxidation stability, and low viscosity coefficient, silicone gives to the product characteristics that remain stable in wide temperature range.

It is applied in these cases: when conventional products oxidize, evaporate, change the viscosity, degrade in chemical aggressive environment at high or low temperature.

### Properties:

- Heat sink
- High resistance in a wide range of temperatures

### Description

Compound Greasil MS12 is used as heat sink, dielectric, and sealer against humidity in semiconductors.

In order to assure a good heat transfer from the semiconductor to the cooler element it is necessary to apply a thin layer of MS 12, otherwise the air existing between the two elements, acts as a heat insulator causing an overheating. Greasil MS 12 thermal conductivity is more or less 20 times more than the air conductivity.

It is also used as a sealer in mechanical parts and electric equipments. Thanks to its thermal conductivity and its dielectric and water repellent properties, it grants an excellent protection to electric circuits.

It does not dry out and it resists up to 220 °C.

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### Instructions for use

Clean very well the surfaces to be treated eliminating non silicone traces.

It can be applied spreading it, or with a brush or spraying it (diluted with a solvent) according to the specific use.

### Storage and manipulation

Greasil MS 12 is not sensitive to frost. Stored in well-closed original containers at a temperature between 0 and 35°C, the product has duration of at least 5 years from the production date. For more information, please consult Safety Data Sheet or contact our Technician Department.

### Packaging

Cod 30470/10 tubes net weight 10gr (560 pz for box)

Cod 30470/50 tubes net weight 50 gr (125pz for box)

Cod 30470/01 pots net weight 1 Kg (12pz for box)

Cod 30470/05 pots net weight 5 Kg.

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### Head office and Production

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### Production since 1957

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