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Silicone Thinning & Softening Fluid F-100

Product Data Sheet

DESCRIPTION:

F-100 is a dimethylpolysiloxane fluid characterized by a high flash point and low surface tension. Compatible with both Platinum/Tin Base RTVs, it is used to thin viscosity and lower cured rubber hardness. With increased amounts of fluid, gel and cure times will be prolonged with a possible permanent gel state at 100% levels. **NOTE: Catalyst should be calculated at the amount of A-side (Base) only—prior to the addition of fluid.

Available Sizes: 4oz (100grams) Pint (1 lb) ½ Gallon (4 lb) Gallon (8 lb) 5 Gallon (40 lbs)

The silicone fluid has exceptional properties as indicated below:

- Excellent High and Low Temperature Resistance.
- Excellent Resistance to Oxidation and Hydrolysis.
- Chemically Inert and Non-corrosive.
- Excellent Resistance to Atmospheric Constituents, such as oxygen, ozone, water and ultraviolet radiation.
- High Compressibility.
- Small change in viscosity due to variations in temperature.
- Incompatibility with Organic Substances.
- Low Surface Tension.

TYPICAL PROPERTIES OF SILICONE FLUID @ 77F (25C):

Color:	Clear
Viscosity, centistokes:	100
Specific Gravity:	0.97
Flash Point, Open Cup,:	570 F
Refractive Index:	1.403
Surface Tension, dynes/cm:	20 – 21

**These properties are typical values and are not intended for use as specifications.*

PROCESSING INSTRUCTIONS:

Add F-100 fluid to the Silicone RTV rubber mix. Catalyst of RTV should be calculated at the amount of A-side (Base) only—prior to the addition of fluid. The addition of 10-15% fluid will lower the hardness by 5-10 points. Gel and Cure times will be extended. High levels of fluid will reduce RTV strength properties. *Pre-test to ensure satisfactory performance.*

STORAGE/SHELF LIFE:

Store in cool, dry area. Shelf life when kept in unopened, sealed containers, at the recommended storage conditions, is 12 months.

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST ANY APPLICATION, AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALIZING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ANY PARTICULAR PATENT.