

SILPAK F-100

Silicone Thinning and Softening Fluid

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.

Features

- Excellent high and low temperature resistance
- Chemically inert and non-corrosive
- High compressibility
- Incompatibility with organic substances
- Excellent resistance to Oxidation and Hydrolysis
- Excellent resistance to atmospheric constituents such as oxygen, ozone, water & ultraviolet radiation
- Small change in viscosity due to variations in temperature
- Low surface tension

Physical and Handling Properties (@ 77°F (25°C))

Property	Value
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

Mixing

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 and Shelf Life

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

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Rev. 10.23.25