



Factor II, Incorporated

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(Information: 1.928.537.8387)
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PRODUCT INFORMATION V40104, V40073, V40047, V40098 Silicone Fluids

PRODUCT DESCRIPTION:

Silicone Fluids are linear polydimethylsiloxane fluid with low to high viscosity and low molecular weight.

EXAMPLES OF APPLICATIONS:

- Lubrication or Hydrophobic coatings of medical devices
- Mold release and anti-adherence agents for plastics and metal castings

KEY BENEFITS:

- Chemically inert.
- Heat-resistant.
- Resistant to ageing by atmospheric agents (oxygen, ozone, water, light).
- Low surface tension.
- Non-toxic.
- Good cutaneous tolerance

TYPICAL PROPERTIES:

Properties	Unit	Value
Identity		Conform
Appearance		Clear
Color		Transparent
Turbidity	NTU	4 max
Odor		None to slight
Volatile matters	150°C-1g-2h;%	0.3 max
Volumetric mix ratio		
Acidity	In NaOH 0.01N ; ml	0.15 max
Phenyl compounds	DO	0.2 max
Mineral oils	Mg/kg	0.1 max
Heavy metals	Pb;%	0.0005 max
Viscosity	@25°C (mm ² /s)	
100cst		95-105
350 cst		330-370
1000cst		900-1100
12500cst		11,875-13,125
Physio-chemical Properties		



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Specific Gravity	25°C ; kg/m ³	ca. ~950-977
Refractive index	@ 25°C	ca. 1.400-1.404
Surface tension	25°C ; mN/m	ca. 20.6-21.2
Flash point	°C	>260

COMPATIBILITY:

The Silicone fluids are soluble in numerous solvents:

- Aliphatic hydrocarbon (e.g., hexane, heptane, mineral spirits)
- Aromatic hydrocarbon (e.g., toluene, xylene)
- Halogenated solvents: methylene chloride, chloroform, trichloroethane, chlorofluoroalkanes
- Ketones: methylethylketone
- Ester: ethyl and butyl acetates, isopropyl palmitate, isopropyl myristate
- Ether: ethyl ether, isopropyl ether
- Higher alcohols: lauryl alcohol, ethyl-2 hexanol

They are insoluble in:

- Water
- Lower alcohols: methanol, ethanol
- Vegetable and animal oils, fatty acids
- Glycols: ethylene glycol, propylene glycol
- Glycerin

PACKAGING:

Silicone Fluids are available in 16oz bottles, 1-gallon buckets, or 5-gallon buckets.

STORAGE AND SHELF LIFE:

Product should be stored between -20°C and +50°C. Factor II warrants their products six months from the ship date. Additional testing and determination of expiration dates is the liability of the end user.

SAFETY:

Please consult the Safety Data Sheet.

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