

Solubility of Silicone Fluids

Silicone fluid is highly soluble in hydrocarbon solvents such as toluene, xylene, ligroin, and mineral spirits as well as in chlorinated hydrocarbons. However, it is insoluble in ethanol, methanol, and water.

PSF-100cSt: solubility with various solvents

Solvent	Results	Solvent	Results
Toluene	○	Acetone	△
Xylene		Butanol	
Solvent naphtha		2-ethylhexanol	
Industrial gasoline		Amyl acetate	
Mineral spirits		Glacial acetic acid	
Kerosene		Naphthene-based lubricating oils	
Cyclohexane		Methanol	
n-hexane		Ethanol	
n-heptane		Ethylene glycol	
Diisopropyl ether		Glycerin	
Hexyl ether		Diethylene glycol stearate	
Ethyl acetate		Propylene glycol	
Butyl acetate		Liquid paraffin	
Isopropyl laurate		Paraffin wax	
Isopropyl palmitate		Petrolatums	
Isopropyl myristate		Lubricating oils	
Methyl ethyl ketone		Fatty acids (other than glacial acetic acid)	
Methyl isobutyl ketone		Animal and vegetable oils	
Lauryl alcohol		Methyl phthalate	
		Water	

○: Dissolves
 △: Partially dissolves
 ×: Does not dissolve (results at room temperature)