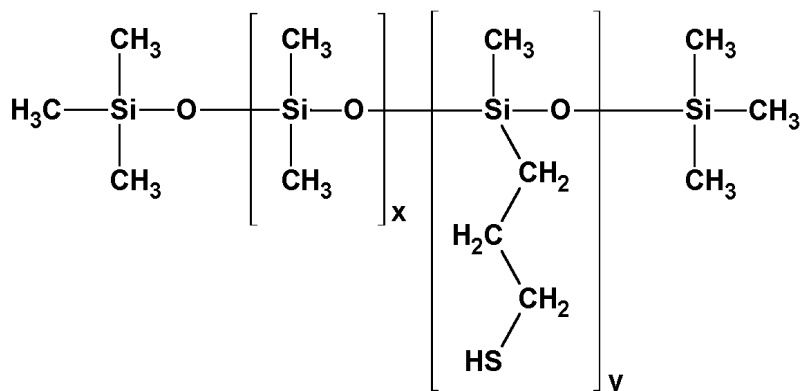




Product Information

GP-710 MERCAPTO FUNCTIONAL SILICONE FLUID

Genesee Polymers' *GP-710 MERCAPTO FUNCTIONAL SILICONE FLUID* is a high viscosity dimethyl silicone copolymer fluid, containing mercaptopropyl sidechains in addition to the conventional methyl group substituents. The structure of *GP-710* is as follows:



$x = 933$ (Approximately)
 $y = 6$ (Approximately)

Molecular Weight = Approximately 70,000

INNOVATIVE POLYMER TECHNOLOGY

TYPICAL PROPERTIES	
Appearance	Colorless, Light Straw Liquid
Specific Gravity	0.98
Flash Point	>450° F
Refractive Index	1.4080
Weight/Gallon	8.0 lbs.
Molecular Weight	70,000 (Approximately)
% Active	100%
% Solvents	None
% SH	0.28%
Viscosity, 25° C	30,000 cSt
Solubility	Aliphatic and Aromatic Solvents, Chlorinated Solvents

APPLICATIONS
Plastic and Rubber Release Agent
Internal Lubricant and Release Agent for Sulfur and Peroxide Cure Rubber
Co-reactant in Vinyl Polymerizations
Corrosion Inhibitor Coatings
Synthesis of Organic - Silicone Copolymers
Ingredient in UV and EB Cure Inks and Coatings
Heat Stabilizer Additive for Use in Dimethyl Silicone Fluids



SPECIAL FEATURES

Reactive Mercapto Functionality

High Affinity for Metal Surfaces

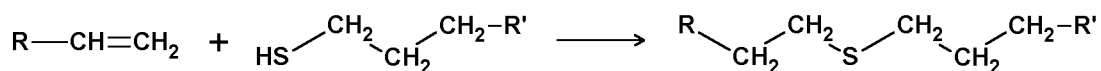
Corrosion Inhibiting Properties

Better Release Agent than Conventional Silicone Fluids in Many Applications

Greater High Temperature and Oxidative Stability than Conventional Silicones

Reactions of Mercapto Silicone

The most useful reaction of the mercapto functionality of *GP-710* involves addition to double bond compounds:



This reaction has been applied to the addition of a wide variety of olefins, including styrene, 1-alkenes, acrylic and methacrylic acids, along with unsaturated compounds. Catalysts include basic materials and peroxides.

Mercapto groups also have shown reactivity with isocyanates, epoxies and sulfur cure or peroxide cure rubber elastomers.

PROCESSING AND SAFETY GUIDELINES

GP-710 MERCAPTO FUNCTIONAL SILICONE FLUID may be easily mixed with aliphatic or aromatic hydrocarbon solvents. The fluid is also fully compatible with dimethyl silicone fluids.

GP-710 should be handled with all of the precautions required in handling any industrial chemical product. Consult Safety Data Sheet for additional details.

PACKAGING/HANDLING/STORAGE

GP-710 MERCAPTO FUNCTIONAL SILICONE FLUID is supplied in 5-gallon (40 lbs.) pails, 55-gallon (440 lbs.) drums and 330-gallon (2640 lbs.) totes. No special storage requirements are necessary.



www.gpcsilicones.com

This information is based on tests believed to be reliable. It is given only for your information and no warranty, express or implied, is made as we cannot guarantee the test conditions not under our direct control. This data is not intended as authorization or recommendation to practice a patented invention without knowledge or permission of the patent owner.