

# Polymers and Fluids

Bluestar Silicones. Delivering Your Potential.



Silicone oils (polymers and fluids) are polydimethylsiloxane linear chains of varying lengths comprising alternating silicon and oxygen atoms (the Si-O-Si siloxane bond).

Whilst the carbon chains of organic substances generally have low resistance to external influences, the stability of the Si-O-Si bonds is basically comparable to that of inert mineral silicates.

Silicone oils are colorless viscous liquids.

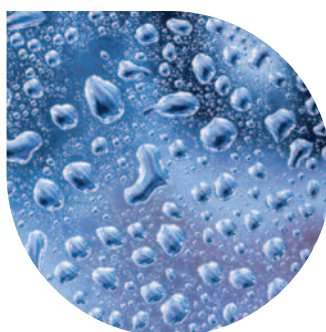
## Silicone Polymers (Bluesil™ FLD 48)

These silicone polymers of varying lengths bear reactive hydroxyl end groups. They are used as the backbone for silicone sealant formulation.

The choice of reactive silicone oils with different viscosities allows one to obtain sealants with variable elastic moduli.

## Silicone Fluids (Bluesil™ FLD 47)

These silicone fluids of varying lengths are used as plastifying agents.



Bluesil™ Fluids	47V100	47V1000	48V750	48V3500 48V5000	48V10 000 48V14 000 48V20 000	48V50 000 48V80 000 48V135 000
Viscosity at 25 °C (mm <sup>2</sup> /s)	100	1 000	750	3 500 5 000	10 000 14 000 20 000	50 000 80 000 135 000
Specific Gravity at 25 °C (Kg/L)	0.965	0.970	0.975	0.975	0.975	0.975
Flash Point (°C) (closed cup)	>300	>300	220	220	270	280
Freezing Point (°C)	-55	-50	-45	-45	-45	-45

These figures are only intended as a guide and should not be used in preparing specifications.

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[www.bluestarsilicones.com](http://www.bluestarsilicones.com)

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