

## technical data sheet

PennWhite Ltd, Aston Way, Midpoint 18 Business Park, Middlewich, Cheshire, CW10 0HS

### Description

Silicone Fluid (polydimethylsiloxane) is a liquid polymerised siloxane which is synthetic in nature and has high thermal stability.

### Applications

Silicone Fluid is used as hydraulic and transformer fluid, damping fluid, diffusion pump fluid, heat-resistant lubricant, release agent, dielectric, water repellent, foam control agent and additive.

### Product Features

Silicone Fluid is tasteless and odourless and has no known harmful effects. It is available in, or can be blended into, an extensive range of viscosities from 0.65 cSt to 1,000,000 cSt. Blends can be tailored to deliver specific usage characteristics by varying the combination of high and low viscosity Fluids.

Silicone Fluid is generally considered safe for indirect food contact under EC 1935/2004. Some variants (dimethylpolysiloxane) are approved as food additive E900 under EU 10/2011. However, E900 fluids are generally only recommended for use as a processing aid suitable for direct food contact, not as an additive.

### Storage, Shelf Life & Packaging

Silicone Fluid has a shelf life of 36 months when stored in original and unopened containers between 5°C and 30°C. It is available in 25kg, 200kg and 1,000kg packs.

### Typical Properties

Parameter	Kinematic Viscosity		Specific Heat Capacity	Break-down Voltage	Density at 25°C	Refractive Index at 25°C	Setting Point (max)	Flashpoint (min.)
	@25°C	@100°C						
Method			n/a	DIN 53 481	DIN 51 757	DIN 51 423/2	n/a	DIN ISO 2592
Unit	cSt	cSt	J/(kg·K)	kV	g/cm <sup>3</sup>	n/a	°C	°C
Viscosity								
0.65 cSt	0.65 ±10%	-	2900	-	0,76 ±0,02	1,375 ±0,001	-67	-4
5 cSt	5 ±10%	2	1600	30	0,93 ±0,02	1,399 ±0,001	-60	150
10 cSt	10 ±10%	3	1600	30	0,94 ±0,02	1,398 ±0,001	-60	150
20 cSt	20 ±10%	7	1600	30	0,95 ±0,02	1,4005 ±0,001	-60	150
50 cSt	50 ±10%	15	1500	30	0,95 ±0,02	1,402 ±0,002	-60	280
100 cSt	100 ±5%	30	1500	30	0,96 ±0,02	1,402 ±0,002	-60	280
200 cSt	200 ±5%	63	1500	30	0,97 ±0,01	1,4035 ±0,002	-50	300
300 cSt	300 ±5%	90	1500	30	0,97 ±0,01	1,4035 ±0,002	-50	300
350 cSt	350 ±5%	105	1500	30	0,97 ±0,01	1,4035 ±0,002	-50	300
500 cSt	500 ±5%	155	1500	30	0,97 ±0,01	1,4035 ±0,002	-50	300
1,000 cSt	1,000 ±5%	300	1500	30	0,97 ±0,01	1,4035 ±0,002	-50	300
1,500 cSt	1,500 ±5%	440	1500	30	0,97 ±0,01	1,4035 ±0,002	-50	300
2,000 cSt	2,000 ±5%	610	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
5,000 cSt	5,000 ±5%	1,550	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
10,000 cSt	10,000 ±5%	3,050	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
12,500 cSt	12,500 ±5%	3,600	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
30,000 cSt	30,000 ±5%	8,350	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
35,000 cSt	35,000 ±5%	10,500	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
60,000 cSt	60,000 ±5%	18,200	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
100,000 cSt	100,000 ±5%	30,000	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
150,000 cSt	150,000 ±5%	44,400	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
300,000 cSt	300,000 ±5%	100,000	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
600,000 cSt	600,000 ±5%	150,000	1500	35	0,97 ±0,01	1,4035 ±0,002	-40	320
1,000,000 cSt	1,000,000 ±5%	200,000	1500	35	0,97 ±0,01	1,4035 ±0,002	-25	320

Please note; these are typical properties only and should NOT be construed or used as a specification for this product.

(OPM3/D3)

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This product is manufactured in a facility whose Quality Management System is certified as being in conformity with ISO 9001:2015.



This product is manufactured in a facility which operates in line with the Chemical Business Association's Responsible Care program.

#### Technical Support Contact Details

Telephone: +44 (0)1606 734820

Fax: +44 (0)1606 837867

Email: info@pennwhite.co.uk

Website: www.pennwhite.co.uk