SILICONE OIL RANGE

Syntech Specialty Lubricants

Description

Syntech Silicone oils are Polydimethyl Siloxane available in different viscosities.

Application include

- Release agent.
  Used purely or as a part of a compounded formula Syntech Silicone Oil provides a non-toxic, non-carbonising mould release for rubber, plastics and metal die-castings.
- Anti-foam agent.
  Very small quantities of the fluid are very effective as a foam control agent, especially in non aqueous systems.
- Mechanical fluid.
  The very high viscosity-index, the thermal and chemical stability, shear-breakdown resistance and the rubber compatibility as well as the compressibility make this fluid outstanding for mechanical and hydraulic uses.
- Lubricant.
  The fluid provides excellent lubricating properties for most plastic and Elastomer surfaces. Lubricity with metals depends upon the possible combinations such as P.T.F.E., MoS2 and other lubricity improvers.
- In polishes and chemical specialties.
  Silicone oil is used in most automobile and furniture polishes for its ease of application, high gloss with a minimum rubbing and durable water repellent film.
- In electrical and electronic equipment. Because of the excellent dielectric properties silicone oil is widely used as an insulating and damping fluid.

Features

- Little change in physical properties over a wide temperature range.
- The fluids are thermally stable at 150°C for extended time intervals.
- Excellent water repellence.
- Low surface tension. The fluid readily wets clean surfaces to impart water repellence and release characteristics.
- Low toxicity.

Benefits

- Good foam builder
- Imparts soft silky feel to the hair
- Ensures smooth wet shaving foams
- Non-irritant to skin

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Physical Properties

Product	Kinematic Viscosity		Specific Heat Capacity	Break-down Voltage	Density at 25°C	Refractive Index at 25°C	Setting Point (max)	Flashpoint (min.)
Method	@ 25°C	@ 100°C		DIN 53 481	DIN 51 757	DIN 51 423/2		DIN ISO 2592
Unit	cSt	cSt	J/ (kg•K)	kV	g/cm^3		°C	°C
5cSt	10±10%	2	1600	30	0,93±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
1000 cSt	1000±5%	300	1500	30	0,97±0,01	1,4035±0,002	-50	300
1500 cSt	1500±5%	440	1500	30	0,97±0,01	1,4035±0,002	-50	300
2000 cSt	2000±5%	610	1500	35	0,97±0,01	1,4035±0,002	-40	320
5000 cSt	5000±5%	1550	1500	35	0,97±0,01	1,4035±0,002	-40	320
10000 cSt	10000±5%	3050	1500	35	0,97±0,01	1,4035±0,002	-40	320
12500 cSt	12500±5%	3600	1500	35	0,97±0,01	1,4035±0,002	-40	320
30000 cSt	30000±5%	8350	1500	35	0,97±0,01	1,4035±0,002	-40	320
35000 cSt	35000±5%	10500	1500	35	0,97±0,01	1,4035±0,002	-40	320
60000 cSt	60000±5%	18200	1500	35	0,97±0,01	1,4035±0,002	-40	320
100000cst	100000±5%	30000	1500	35	0,97±0,01	1,4035±0,002	-40	320
150000cst	150000±5%	44400	1500	35	0,97±0,01	1,4035±0,002	-40	320
300000cst	300000±5%	100000	1500	35	0,97±0,01	1,4035±0,002	-40	320
600000cst	600000±5%	150000	1500	35	0,97±0,01	1,4035±0,002	-40	320