

Silicone Oil BR-201

Description

Silicone oil is manufactured to yield essentially linear polymers in a wide range of average kinematic viscosities.

It is highly soluble in organic solvents such as aliphatic and aromatic hydrocarbons, and the halocarbon propellants used in aerosols. The fluid is easily emulsified in water with standard emulsifiers and normal emulsification techniques. But it is insoluble in water and many organic products.

The viscosities generally used in formulating polishes are between 100 and 30,000cst. To obtain optimum results, in terms of ease of application and depth of gloss, it is preferable to use a blend of a low-viscosity fluid and a high-viscosity fluid.(e.g. 3 parts 100cst and 1 part 12,500cst). The low-viscosity silicone fluid acts as a lubricant to make polish application and rubout easier, whereas the high viscosity silicone fluid produces a greater depth of gloss. Since these polymers are inherently water repellent, they will cause water to bead up on a treated surface rather than penetrate the polish film.

Technical Index

Item	201-5	201-10	201-20	201-50	201-100	201-200		
Appearance	Colorless transparent liquid							
Viscosity	5±0.5	حصولات 10±1	20±2	50±5	100±5	200±10		
(25°C), cst	3±0.3			30±3	100±3	200±10		
Density	0.920	0.931	0.946	0.956	0.958	0.962		
25°C, g/cm3	~0.930	~0.939	~0.955	~0.964	~0.968	~0.972		
Refractive	1.3950	1.3970	1.3980	1.4000	1.4020	1.4020		
Index, 25°C	~1.4000	~1.4010	~1.4020	~1.4040	~1.4040	~1.4040		
Flash point, °C	≥125	≥165	≥210	≥280	≥310	≥310		
Volatile (150°C,2h), %	≤1.00	≤1.00	≤1.00	≤1.00	≤1.00	≤1.00		



Item	201-350	201-500	201-1000	201-5000	201-12500	201-60000		
Appearance	Colorless transparent liquid							
Viscosity	350	500	1000	5000	12500	60000		
(25°C), cst	±20	±25	±50	±250	±630	±3000		
Density	0.962	0.962	0.965	0.965	0.968	0.970		
25°C, g/cm ³	~0.972	~0.972	~0.975	~0.975	~0.978	~0.980		
Refractive	1.4020	1.4020	1.4025	1.4025	1.4025	1.4025		
Index, 25°C	~1.4040	~1.4040	~1.4045	~1.4045	~1.4045	~1.4045		
Flash point, °C	≥315	≥315	≥320	≥320	≥330	≥330		
Volatile (150°C,2h), %	≤1.00	≤1.00	≤1.00	≤1. <mark>00</mark>	<u>≤1.00</u>	≤1.00		

^{*}Other viscosity can be provided according to customer's requirements.

Properties and Features

- Very good resistance to high and low temperature.
- Good combustion resistance.
- Good dielectric properties. WWW. efu.co.com
- Low surface tension.
- High compressibility.
- Absence of ageing upon exposure to atmospheric agents.
- Good oxidation resistance.
- Little change in viscosity with temperature.
- Good resistance to high and prolonged shear stress.

Application

- Thermostatic fluids (- $50 \, ^{\circ}\text{C}$ to + $200 \, ^{\circ}\text{C}$).
- Dielectric fluids (impregnation of paper for condensers).

^{*}Viscosity was measured by rotor viscometer.



- Anti-blotting products for photocopying machines.
- Thinning and plastifying agents for RTV's and silicone sealants.
- Lubricating and heat protecting agents for textile threads (synthetic sewing threads).
- Ingredients in maintenance products (wax polishes, floor and furniture polishes, etc.).
- Paint additives (anti-cratering, anti-floating/flooding and anti-scratching effects, etc.).
- Water repellent treatment: Of powders (for paints and plastics), Of fibers: glass fibers.
- Release agents (mould release of plastics and metal castings).
- Lubricants (lubrication of elastomers or plastics on metals).
- Surfactants for styrene-butadiene foam.

Packing

200kg Iron drums or 950kg IBC drums

Storage

Transport as non-hazardous chemicals, keeping away from rain and sunlight.

Shelf life

Original characteristics remain intact for 1 years, if kept in recommended storage.

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