

BARREL SILICONE FLUID MA SERIES

BARREL SILICONE FLUID MA SERIES are light brown clear liquid made from dimethylpolysiloxane with improved resistance to heat and oxidation. Viscosity of 10 to 1,000 mm²/s (25°C) are widely used in industry as heat transfer fluids in open systems that require heat resistance and oxidation resistance.

1. Features

- (1) Excellent thermal stability.
- (2) High flash point and flame retardant.
- (3) Very low vapor pressure and small evaporation rate keep the working environment clean.
- (4) The viscosity change with temperature is small and the pour point is low, so it has good low temperature fluidity.
- (5) Odorless.
- (6) Chemically inert.

2. Typical properties

| Property | | BARREL SILICONE FLUID | | | | |
|-------------------------------|--------------------------|-----------------------|---------|---------|---------|---------|
| | | MA-10 | MA-20 | MA-50 | MA-100 | MA-1000 |
| Appearance | | Light Brown Clear | | | | |
| Density 25°C | kg/m ³ | 934 | 951 | 960 | 964 | 970 |
| Flash Point (COC) | °C | 180 | 268 | 318 | >330 | >340 |
| Pour Point | °C | <-65 | <-60 | <-55 | <-55 | <-50 |
| Kinematic Viscosity | 25°C mm ² /s | 10 | 20 | 50 | 100 | 1000 |
| | 40°C mm ² /s | 7.7 | 15 | 37 | 76 | 760 |
| | 100°C mm ² /s | 3.5 | 6.3 | 15 | 31 | 310 |
| Acid Number | mgKOH/g | 0.01 | | | | |
| Thermal Expansion Coefficient | 1/°C | 0.00108 | 0.00107 | 0.00104 | 0.00096 | 0.00096 |
| Evaporation Rate 150°C,24h | mass% | <25 | <5.0 | <0.3 | <0.3 | <0.3 |

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