Silicone Fluid for Heat Resistance Use

YF33 series

YF33 series is a light brown, transparent methyl silicone fluid with excellent thermal stability. The product has the same general properties as TSF451 series but has a far more excellent heat oxidizing stability and can be used regularly at 250°C in the air.

KEY FEATURES
♦ Excellent thermal stability in open air heating condition

APPLICATIONS
♦ Heat transfer fluid at high temperature condition at open air condition

TYPICAL PROPERTY DATA

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>YF33-100</th>
<th>YF33-1000</th>
<th>YF33-3000</th>
<th>YF33-1M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light brown, transparent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific gravity (25°C)</td>
<td>0.968</td>
<td>0.971</td>
<td>0.973</td>
<td>0.975</td>
</tr>
<tr>
<td>Viscosity (25°C) mm² /s</td>
<td>100</td>
<td>1,000</td>
<td>3,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Weight loss (150°C, 24h) %</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>Pour point °C</td>
<td>Max -50</td>
<td>Max -40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VTC*</td>
<td>0.59</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
</tr>
<tr>
<td>Thermal stability</td>
<td>250°C, 1000h</td>
<td>No gelation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>300°C, 48h</td>
<td>No gelation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*VTC (Viscosity Temperature Coefficient) = 1 – Viscosity at 98.9°C / Viscosity at 37.8°C

Typical property data values should not be used as specifications.
THERMAL STABILITY (in open air)

Test condition
Sample weight: 30g
Sample vessel: 50ml beaker, 42mm in diameter

VISCOSITY CHANGE

![Viscosity Change Graph]

WEIGHT LOSS

![Weight Loss Graph]

HANDLING AND SAFETY
♦ Wear eye protection and protective gloves as required while handling the product.
♦ Use the product in a well ventilated area.

STORAGE
♦ Store in a cool, dry place out of direct sunlight.
♦ Keep out of the reach of children.
PACKAGING

YF33-100
♦ 1kg bottle available in case of 10
♦ 15kg can available

YF33-1000
♦ 1kg bottle available in case of 10
♦ 15kg can available
♦ 200kg drum available

YF33-3000
♦ 1kg bottle available in case of 10
♦ 15kg can available

YF33-1M
♦ 1kg bottle available in case of 10
♦ 15kg pail available

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