Element14* PDMS 100

INCI Name
Dimethicone

Product Description
Element14 PDMS medium viscosity oils are linear polydimethylsiloxane polymers with kinematic viscosities of 50, 100, 200, 350, 500 and 1,000 cSt.

Key Features and Typical Benefits
Silicones differ from organic compounds in both their physical and chemical properties.

- high and low temperature stability
- oxidative stability
- chemically inert
- low flammability
- low surface tension
- shear stability
- high compressibility
- low vapor pressure
- low odor
- soft, smooth silky feel
- non-oily feel
- spreadability
- low coefficient of friction
- lubricious
## Typical Properties

<table>
<thead>
<tr>
<th></th>
<th>Element14 PDMS 50</th>
<th>Element14 PDMS 100</th>
<th>Element14 PDMS 200</th>
<th>Element14 PDMS 350</th>
<th>Element14 PDMS 500</th>
<th>Element14 PDMS 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity cSt</td>
<td>50</td>
<td>100</td>
<td>200</td>
<td>350</td>
<td>500</td>
<td>1000</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, Colorless Liquid</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Specific Gravity at 25°C</td>
<td>0.96</td>
<td>0.97</td>
<td>0.97</td>
<td>0.97</td>
<td>0.97</td>
<td>0.97</td>
</tr>
<tr>
<td>Refractive Index at 25°C</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td>Flash Point, Open Cup, °C</td>
<td>&gt;300</td>
<td>&gt;302</td>
<td>&gt;302</td>
<td>&gt;302</td>
<td>&gt;302</td>
<td>&gt;302</td>
</tr>
<tr>
<td>Pour Point, °C</td>
<td>-54</td>
<td>-47</td>
<td>-47</td>
<td>-47</td>
<td>-47</td>
<td>-47</td>
</tr>
<tr>
<td>Surface Tension Dynes/cm at 25°C</td>
<td>20.8</td>
<td>20.9</td>
<td>21</td>
<td>21.1</td>
<td>21.1</td>
<td>21.3</td>
</tr>
</tbody>
</table>

## Potential Applications
Element14 PDMS medium viscosity oils may be considered for use in several industrial and consumer applications.

- heat and mechanical transfer fluid
- hydraulic fluid electrical insulating fluid
- water repellent
- polish ingredient
- mold release agent
- lubricant
- anti-foam
- personal care ingredient
- textile spin finishes
- paints and coatings additive

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