

## Element14\* PDMS 100K

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#### Description

Element14 PDMS High Viscosity Oils are linear polydimethylsiloxane polymers with kinematic viscosities of 5000, 10000, 12500, 30000, 60000 and 100000 cSt.

#### Key Features and 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 Physical Properties

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	PDMS 5K	PDMS 10K	PDMS 12.5K	PDMS 30K	PDMS 60K	PDMS 100K
Viscosity cSt	5000	10000	12500	30000	60000	100000
Appearance	Clear, Colorless Liquid					
Color (APHA)	<=15	<=15	<=15	<=15	<=15	<=15
Weight Loss %	1.5	1.5	1.5	1.5	1.5	1.5
Viscosity @ 25°C	4500- 5000	9000- 11000	11250- 13750	27000- 33000	54000-66000	90000- 110000
Specific Gravity g/cm <sup>3</sup> at 25°C (Guaranteed 1/50)	0.967- 0.975	0.967- 0.975	0.967- 0.975	0.969- 0.977	0.969- 0.977	0.969- 0.977
Refractive Index at 25°C	1.4	1.4015- 1.4055	1.4	1.4015- 1.4055	1.4015- 1.4055	1.4
Haze (NTU)	8	8	8	8	8	8
Flash Point, Open Cup, °C	>316	>316	>316	>316	>316	>316
Pour Point, °C	-50	-50	-50	-50	-50	-50
Surface Tension Dynes/cm at 25°C	21.3	21.3	21.3	21.3	21.3	21.3

### Potential Applications

Element14 PDMS High 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

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any

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