MOMENTIVE™

Technical Data Sheet



Element14* PDMS 100-E

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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 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

	Element14 PDMS 50-E	Element14 PDMS 100-E	Element14 PDMS 200-E	Element14 PDMS 350-E	Element14 PDMS 500-E	Element14 PDMS 1000-E
Viscosity cSt	50	100	200	350	500	1000
Viscosity @ 25°C cSt	47.5- 52.5	95.0- 105.0	190.0- 210.0	332.5- 367.5	475.0- 525.0	950.0- 1050.0
Appearance	Clear, Colorless Liquid					
Specific Gravity at 25° C (Guaranteed 1/50)	0.956- 0.964	0.962- 0.970	0.964- 0.972	0.965- 0.973	0.967- 0.975	0.967- 0.975
Refractive Index at 25° C (Guaranteed 1/50)	1.400- 1.404	1.4005- 1.4045	1.4013- 1.4053	1.4013- 1.4053	1.4013- 1.4053	1.4013- 1.4053
HCl (ppm)	5	5	5	5	5	5
Weight Loss	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%

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

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

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Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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Contact Information

For product prices, availability, or order placement, contact our customer service by visiting momentive.com/ContactSilicones.

For literature and technical assistance, visit our website at: www.momentive.com

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