LANDU

Technical data sheet
TDS-DUVERA-1010-L-EN
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LANDUSIL DUVERA

1010-L

Polydimethylsiloxane (Dimethyl Silicone Fluid)

Clear, inert silicone fluid for release, lubrication, damping, antifoam and formulation use

Chemical identity

Chemical name
Polydimethylsiloxane

CAS number
63148-62-9

End groups
Trimethylsiloxy

Standard grade
350 mm²/s

Product description

LANDUSIL DUVERA 1010-L is a linear trimethylsiloxy-terminated polydimethylsiloxane. This data sheet describes the 350 mm²/s grade; other viscosity grades are supplied on request with the same quality limits except viscosity.

Polydimethylsiloxane combines low surface tension, high thermal stability, low temperature dependence of viscosity and chemical inertness. It is used neat or as a raw material for emulsions, release agents, polishes, lubricants and damping fluids.

Features and benefits

- Low surface tension and good spreading
- Viscosity changes little with temperature
- High flash point and thermal stability
- Chemically inert and water-repellent
- Wide range of viscosity grades

Specification

Property	Unit	Value	Test method
Appearance		**Colorless, clear liquid free of visible impurities**	Visual
Kinematic viscosity, 25 °C	mm²/s	**350 ± 20**	Capillary viscometer
Density, 25 °C	g/cm³	**0.960 – 0.970**	ISO 12185
Refractive index, nD25	–	**1.4000 – 1.4050**	Refractometry
Volatile content, 150 °C	%	**max. 1.0**	Gravimetric

Tested on every batch and reported on the Certificate of Analysis.

Typical properties

Flash point, open cup	above 300 °C
Other viscosity grades	On request

For guidance only; not part of the specification.

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Applications

Release agents
Mold release for rubber, plastics and die casting.

Lubrication and damping
Lubricant for plastics and rubber; damping and hydraulic fluid.

Polishes and coatings
Slip, gloss and leveling in polishes and coatings.

Emulsions and antifoams
Base fluid for silicone emulsions and antifoams.

Guidelines for use

Selection	Choose the viscosity grade for the application; low grades spread and penetrate, high grades give durable films.
Processing	Use neat, dissolved in hydrocarbon solvents or emulsified in water.

These levels are starting points. Determine the optimum level and method in trials under your own conditions.

Handling and safety

- Spilled fluid makes floors very slippery; clean up immediately.
- Avoid contact with eyes.
- Read the Safety Data Sheet before use.

Storage and shelf life

Store in tightly closed original containers in a cool, dry place. Shelf life is 36 months from the date of manufacture in unopened containers.

Packaging

25 kg plastic drum, 200 kg steel drum, 1,000 kg IBC. Other pack sizes on request.

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