

Product Identification

Chemical Name	Polydimethylsiloxane
Common Name	Silicone Oil / PDMS
CAS No.	63148-62-9
Chemical Formula	$(C_2H_6OSi)_n$
Grade	Industrial Grade

Description

Polydimethylsiloxane (PDMS) is a clear, colorless, odorless, transparent silicone liquid with a smooth, stable fluid structure. It is non-toxic, non-corrosive, and remains fluid across a wide temperature range, making it suitable for diverse industrial processing and formulation requirements.

Key Properties

- Excellent thermal stability and a wide operating temperature range
- Superior lubrication and water repellency
- Low surface tension and high spreadability
- High oxidation resistance and low volatility
- Non-toxic and non-corrosive

Specifications

Product Code	Viscosity (cSt @25C)	Flash Point	Sp. Gravity @25C	Refractive Index @25C
S201-100	90 - 110	280 +/- 20	0.96 - 0.97	1.400 - 1.403
S201-350	300 - 400	280 +/- 20	0.96 - 0.97	1.400 - 1.403
S201-1000	900 - 1100	280 +/- 20	0.96 - 0.97	1.400 - 1.403
S201-60000	59000 - 61000	280 +/- 20	0.96 - 0.97	1.400 - 1.403

Applications

Base fluid for silicone emulsions and specialty industrial formulations; lubrication, water repellency, anti-foaming, and release applications across textiles, automotive, electrical, rubber & plastics, paints & coatings, and specialty sectors.

Packaging & Storage

Available in 200 kg and 50 kg HDPE barrels. Store in a dry, ventilated place under normal temperature.