



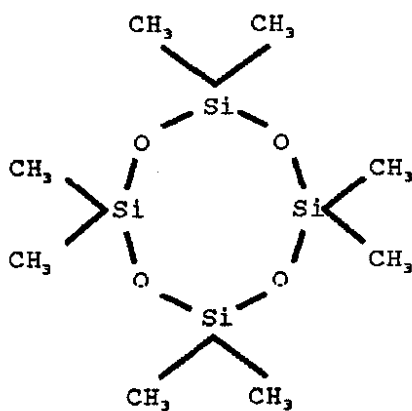
ADVANCED POLYMER, INC.

GET THE API ADVANTAGE . . .

APS-D4

APS-D4 is a volatile octamethylcyclotetrasiloxane fluid designed for a wide variety of applications including cosmetic/personal care, industrial cleaning and carrier applications. APS-D4 exhibits very low toxicity and is exempt from federal VOC regulations.

CHEMICAL STRUCTURE:



CHARACTERISTICS

- Clear, odorless, non-greasy fluid, which exhibits a low surface tension and evaporates to leave essentially no residue.
- When used as a base fluid or as a fugitive carrier, allows good spreading and detackification properties.
- When used in conjunction with solid pigments, will produce very good leveling properties.

APPLICATION

The diagram on the next page provides vapor pressure versus temperature data for: APS-D4 vs. DMF-0.65, APS-D5, water, ethanol, and 1-hexadecanol:

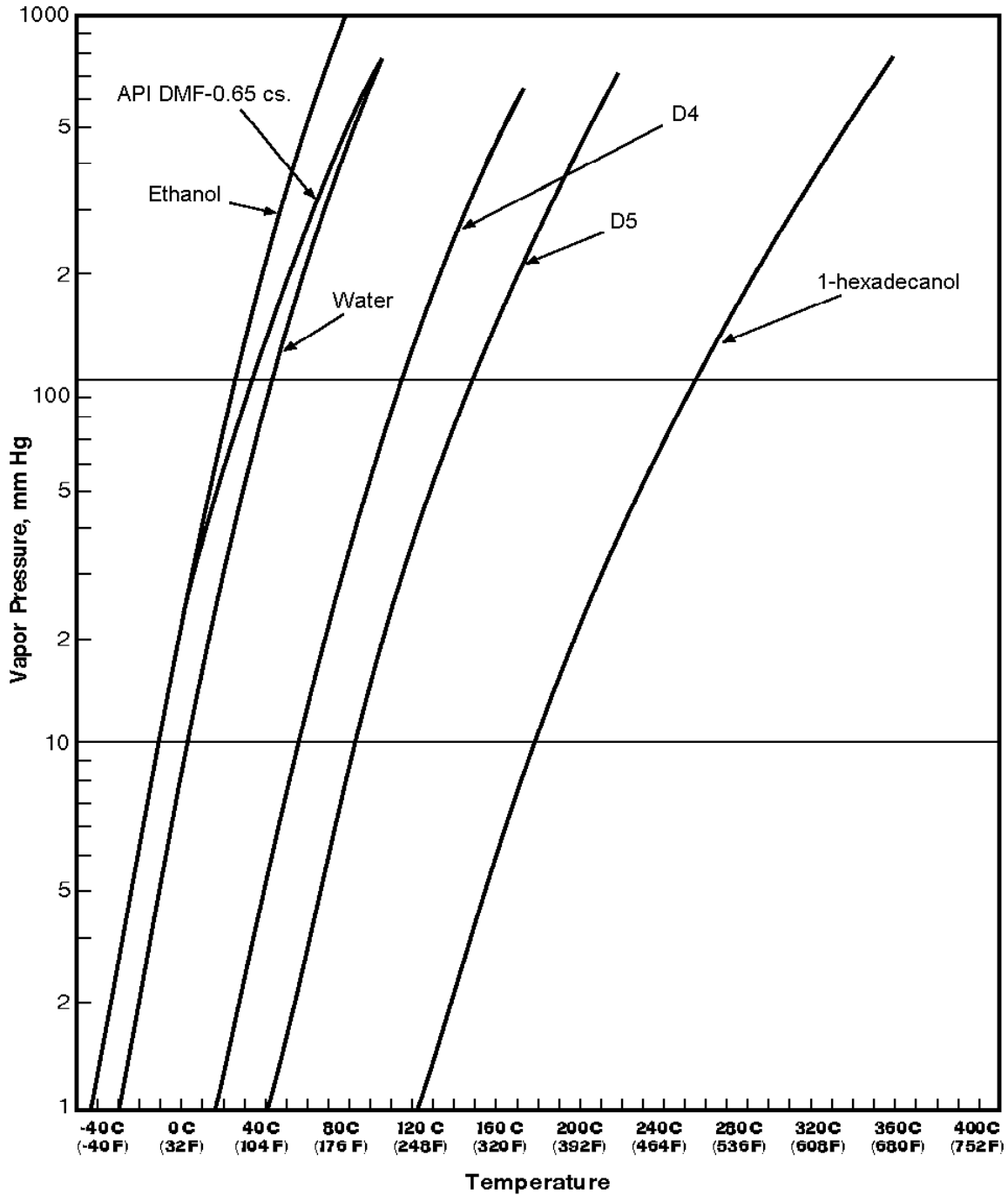
TYPICAL PROPERTIES

Appearance:	Clear transparent fluid
Typical Analysis:	95%
Specific Gravity (@ 25°C):	0.953
Refractive Index:	1.394
Viscosity (@ 25°C):	2.5 cs
Flash Point:	131 °F
Melting Point:	63.5 °F

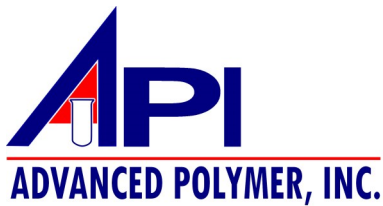
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APS-D4

Vapor Pressure vs. Temperature of Volatile Silicone Fluids



D4 = Octamethylcyclotetrasiloxane (APS-D4)
D5 = Decamethylcyclopentasiloxane (APS-D5)



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APS-D4

APS-D4 is soluble in a wide range of solvents and compatible with a wide range of cosmetic ingredients:

SOLUBILITY DATA:

Soluble In	Insoluble In
Ethanol (100%) Isopropanol (100%) Aliphatic (mineral spirits, heptanes, hexane) Aromatic (toluene, xylene)	Water Ethanol (95%) Isopropanol (70%)

COMPATIBILITY DATA:

Soluble In	Insoluble In
Mineral Oil Paraffin Wax Stearic Acid Petrolatum Stearyl Alcohol Isopropyl Palmitate	Isopropyl Lanolate Glycerin Lanolin Acid Polyethylene Glycol 400

Applications not related to cosmetics/personal care include lubricants, penetrating oils and specialty cleaners.

PACKAGING

APS-D4 is available in 8 oz. samples and 400-lb drums.

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Revised March 28, 2016