



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号  
日月科技园

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安徽艾约塔硅油有限公司

**IOTA CORPORATION LTD.**

Sunmoon industry park, 985 Xingzhong Road,  
Bengbu, China 233000

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**TDS of Low Viscosity Silicone Oils IOTA PDMS 47V3-47V10**

**Description**

IOTA PDMS 47V3- 47V10 are a low viscosity polydimethylsiloxanic fluids.

**Applications**

IOTA PDMS 47V3 - 47V10

47V3 for Chain Stopper for silicone polymerization;

47V10 for Lubricants (lubrication of elastomers or plastics on metal, on spandex agent);

Low temperature hydraulic fluids;

Thinning agents for RTV's and silicone sealants ( Two component, room temperature vulcanizing silicone elastomers);

Coating additive to improve flowability.

**Properties**

Very good heat stability,

Low surface tension,

High compressibility,

Excellent weathering resistance,

Good oxidation resistance,

Low freezing point,

Less change in viscosity as a function of temperature than non-silicone oils,

Good resistance to high and prolonged shear forces,

Low heat of combustion,

Limited combustion.

**Chemical index**

Properties	IOTA PDMS	
	47V3	47V10

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Appearance	Colorless, transparent liquid	
Viscosity at 25°C, mm <sup>2</sup> /s, approx.	3	10
Specific gravity at 25°C, approx.	0.890	0.930
Flash point (open cup), °C, approx.	75	182
Freezing point, °C, approx.	-80	-65
Refractive index at 25°C, approx.	1.395	1.399
Surface tension at 25°C, mN/m, approx.	18.9	20.1
Vapor pressure at 200°C, Pa, approx.	-	1.33
Volume expansion coeff. Between 25°C and 100°C, cm <sup>3</sup> /cm <sup>3</sup> °C, approx.	1.16* 10 <sup>-5</sup>	1.08* 10 <sup>-5</sup>
Specific heat capacity between 40°C and 200°C, J/g, K	-	1.88
Thermal conductivity, W/mK, approx.	0.11	0.13
Viscosity/temperature coeff. [1], approx.	-	0.57

[1] Viscosity/temperature coefficient = 1 - (Viscosity at 99°C / Viscosity at 38°C)

### Packaging

IOTA PDMS 47V3 are available in 20 kg drums.

IOTA PDMS 47V10 are available in 25 and 200 kg drums.

### Storage and shelf life

When stored in its original unopened packaging at a temperature of between -20 and +30 °C, IOTA PDMS 47V3 - 47V10 may be stored for up to 36 months from its date of

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manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging.

Exceed the date, IOTA Silicones no longer guarantees that the product meets the sales specifications.

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