



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,
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TDS of Middle Viscosity Silicone Oils IOTAPDMS47V50-47V1000

Description: IOTA PDMS 47V50 - 47V1000 are straight chained polydimethylsiloxane fluids.

Properties:

- Very good resistance to high and low temperature,
- Good combustion resistance,
- Low surface tension,
- High compressibility,
- Absence of ageing upon exposure to atmospheric agents,
- Good oxidation resistance,
- Little change in viscosity with temperature,
- Good resistance to high and prolonged shear stress.

Technical index:

Properties	IOTA PDMS					
	47V50	47V100	47V300	47V350	47V500	47V1000
Appearance	Colorless, limpid liquid					
Viscosity at 25°C, mm ² /s, approx.	50	100	300	350	500	1000
Specific gravity at 25°C, approx.	0.959	0.965	0.970	0.970	0.970	0.970
Flash point (Open cup), °C, approx.	280	≥300	≥300	≥300	≥300	≥300
Freezing point, °C, approx.	-55	-55	-50	-50	-50	-50
Refractive index at 25°C, approx.	1.402	1.403	1.403	1.403	1.403	1.403
Surface tension at 25°C, mN/m, approx.	20.7	20.9	21.1	21.1	21.1	21.1
Vapor pressure at 200°C, Pa,	1.33	1.33	1.33	1.33	1.33	1.33



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approx.						
Volume expansion coeff. Between 25°C and 100°C, cm ³ /cm ³ /°C, approx.	1.05* 10-3	9.45* 10-4	9.45* 10-4	9.45* 10-4	9.45* 10-4	9.45* 10-4
Specific heat capacity between 40°C and 200°C, J/(g.K)	1.46	1.46	1.46	1.46	1.46	1.46
Thermal conductivity, W/(m.K), approx.	0.16	0.16	0.16	0.16	0.16	0.16
Viscosity/temperature coeff. [1], approx.	0.59	0.60	0.62	0.62	0.62	0.62

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

Applications:

Thermostatic fluids (-50°C to +200°C),

Anti-blotting products for photocopying machines,

Thinning and plastifying agents for RTV' s and silicone sealants,

Raw material for Antifoam

Lubricating and heat protecting agents for textile threads (synthetic sewing threads),

Ingredients in maintenance products (polishes, wax polishes, floor and furniture polishes,
etc.),

Paint additives (anti-cratering, anti-floating/flooding and anti-scratching effects, etc.),

Water repellent treatment:

-of powders (for paints and plastics),

-of fibers: glass fibers,

Release agents (mould release of plastics and metal castings),

Lubricants (lubrication of elastomers or plastics on metal),

Surfactants for styrene-butadiene foam.

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

Tel: 86-552-3827158; Fax: 86-552-3822922 Website: www.htvsilicone.com



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HCR application to reduce hardness

Package:

IOTA PDMS 47V50-47V1000 are available in 25 and 200 kg drums, in 1000kg containers or in 20 tonnes tank.

Storage and shelf life:

When stored in its original unopened packaging at a temperature of between -20 and +50 °C, IOTA PDMS 47V50 - 47V1000 may be stored for up to 36month from its date of manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging.

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

For details, please contact,

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