



安徽艾约塔硅油有限公司

Iota Silicone Oil(Anhui) Co., Ltd

安徽省蚌埠市高新区兴中路 985 号日月科技园

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Silicone Gel IOTA 6250H

IOTA 6250H is a high temperature resistant silicon gel, mainly used for

- Sealing of IGBT modules and electronic components of optoelectronic equipment
- Applied to automotive electronic precision electrical circuits and hybrid circuit modules
- Solar cells, sensors, high-power rectifiers, rectifier bridge modules

Product features

- Medium viscosity, transparent two-component silicone gel can be cured at room temperature or at high temperature
- It has low hardness, low shrinkage, no corrosion, no precipitation of low molecular weight silicone oil, and stable chemical properties
- Capable of reliably protecting sensitive microelectronic components from moisture and corrosion
- It has better heat resistance than ordinary silicon gel

Product parameters

Inspection items	Component	Test Method	Results
Before curing			
Viscosity (mpa.s)	A	GB/T 2794	450~650
	B	GB/T 2794	900~1100
Density (g/cm ³)	A	GB/T 13354	0.97
	B	GB/T 13354	0.97
Mixing ratio	A:B	/	1:1
Mixed density(g/cm ³)	A+B	GB/T 13354	0.97
Operable time/25°C(h)	A+B	GB/T 7123	2
Gel time/25°C(h)	A+B	/	6
Curing conditions(°C×min)	A+B	/	120×30
After curing			

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Density/25°C(g/cm ³)		GB/T 13354	0.97
Penetration(mm/10)		GB 269-85	300
Dielectric constant		GB/T1693	2.7
Volume resistivity(Ω·cm)		GB/T 1692	1015
Dielectric strength (KV/mm)		GB/T 1695	15
Refractive index/23°C		ABBE	1.405
Transmittance(%)		UV-VIS	99
Flame retardancy		UL	94HB
Linear expansion coefficient (ppm)		/	260
Thermal Conductivity (W/m.k)		/	0.2
High temperature resistance (220°C×600h)		/	No brittleness or cracking

The data in the table is for reference only, please refer to the measured data

Operation and Safety

- Before use, mix components A and B in a ratio of 1:1. Stirring time 5min. It is recommended to use after degassing for 5-10 minutes under -0.09MPa~-0.08MPa vacuum.
- Temperature and curing time: 25°C, 2.5 hours to start thickening; 30min to fully cure at 120°C.
- The mixed rubber should be sealed and stored and used up within the safe operation period, otherwise it will slowly cure and cause waste.
- The curing speed of the rubber has a certain relationship with the temperature, and the curing will be slower at low temperatures.
- This product is non-hazardous, but do not put it in the mouth or eyes. If it is accidentally splashed, rinse with plenty of water.
- The A and B components of the colloid must be sealed and stored, be careful of leakage during transportation!
- Do not contact with N, P, S, plasma compounds such as sulfur, polysulfide, polysulfone or other sulfur-containing materials, amines, polyurethanes, amides and

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azides, organotin compounds and silicone rubber containing organotin catalysts to avoid poisoning the platinum catalyst and preventing curing.

Package

- A / B Component 20KG
- A / B Component 180KG

Storage and Shelf life

- Store in a dry place for a storage period of 12 months. If it expires, it needs to be retested and can be reused after passing the inspection.
- This type of product belongs to non hazardous goods and can be transported as general chemicals.

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