



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号日月  
科技园

电话: 86-552-3827158

传真: 86-552-3822922

安徽艾约塔硅油有限公司

**IOTA CORPORATION LIMITED**

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

Tel: 86-552-3827158

Fax: 86-552-3822922

### **Eco-friendly Solid Silicone Resin IOTA GT6**

#### **Product description**

IOTA GT6 Pure silicone resin has excellent high and low temperature properties, arc corona resistance, electrical insulation properties, and water and moisture resistance. It has good weathering resistance, high mechanical properties, flame retardant, corrosion resistance, ozone resistance and chemical stability. The resin is used for protection of high temperature equipment coatings, high temperature anti-corrosive coatings, powder coatings, insulating materials, weather resistant coatings, inks and other special coatings. IOTA GT6 has improved flexibility on the basis of IOTA GT5. It is used in high temperature products that require bending resistance, and has high phenyl content.

#### **Technical index**

Appearance:	White powder to light yellow powder or granular
Heat resistance of varnish ( $\geq 350^{\circ}\text{C}$ , 4h, %):	5 (thermal weight loss)
Solid content ( $180^{\circ}\text{C}$ , 1h, %):	$\geq 99$
Gelation time ( $200^{\circ}\text{C}$ , min):	10-60 (customized according to customers' requirements)
Softening point( $^{\circ}\text{C}$ ):	$70 \pm 5$

#### **Application**

- 1.Used as high temperature resistant powder coating or liquid resin.
- 2.It can also be combined with epoxy, polyester and other powder resins.
- 3.Used in coatings like barbecue grills, mufflers, exhaust pipes and other fields that require high-temperature anti-corrosion coating, insulating materials or spacecraft, and military equipment.

#### **How to use?**

A thermosetting composite system prepared by mixing organic silicon solid resin with fillers, pigments, curing agents, additives or glass fibers, etc., and can be processed by transfer molding, electrostatic spraying, and solvent-based methods.

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

Tel: 86-552-3827158; Fax: 86-552-3822922 Website: [www.siliconeoil.net](http://www.siliconeoil.net)



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### **Advantages**

1. Does not contain solvents and fully meets environmental protection requirements;
2. It is not sticky at room temperature, and the powder will not agglomerate when stored;
3. It can be mixed with IOTA GT3 and IOTA GT5 to meet the different requirements;
4. The high temperature resistance will be slightly change with different formulations,  $\geq 700\text{C}$ .

### **Packaging, storage and transportation**

1. packed in plastic bag or composite carton (50Kg) or customized according to customer requirements; double-layer inner bag is moisture-proof and sealed.
2. The product should be stored in a cool and dry place  $\leq 30\text{C}$  to prevent direct sunlight; the shelf life is 12 months, and it can still be used after passing the inspection.
3. Transported as non-dangerous goods.

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