



## Features

- » Good thermal conductivity
- » Excellent adhesion
- » Superior electrical insulation
- » Moisture resistance and shock resistance
- » Outstanding high temperature resistance and hot water resistance

## Applications

- » Bonding, insulation and sealing of household appliances and electrothermal appliances
- » Insulating protective coating for electrical appliances and sealing of plugs and sockets
- » Maintenance of TV sets and output transformer components
- » Moisture-proof sealing between high-voltage caps and hook springs
- » Bonding, thermal conduction and insulation sealing for neon transformers, household appliance components, electric heating tubes, rice cookers, electric irons and other electrothermal equipment

**TIS<sup>®</sup> 580-25** is a one-component, room-temperature curing silicone rubber with excellent adhesion, high strength and good thermal conductivity. It features superior electrical insulation, sealing performance and aging resistance, and can be used within the temperature range of -50°C to 250°C. As a dealcoholized silicone adhesive, it cures by contacting moisture in the air and on the surface of the adherend, and is suitable for the electronics and lighting industries.

Typical Properties of TIS <sup>®</sup> 580-25 Series		
Property	Value	Test method
Appearance	White Paste	Visual
Density (g/cm <sup>3</sup> , 25°C)	1.6	ASTM D792
Table Dry Time (min, 25°C, 55%RH)	≤20	-
Curing Type (Single Component)	De-alcoholized type	-
Viscosity @ 25°C (cps)	20000	ASTM D1084
Complete Curing Time (d, 25°C)	3-7	-
Tensile Strength (N/cm)	8	ASTM D412
Hardness (Shore A)	45	ASTM D2240
Cutting Strength (N/cm)	≥2.5	GB/T 7124
Recommended Operating Temperature (°C)	-50~250	-
Volume Resistivity (Ω·cm)	2.0×10 <sup>14</sup>	ASTM D257
Breakdown Voltage (V/mm)	21000	ASTM D149
Dielectric Constant (106Hz)	3.7	ASTM D150
Thermal Conductivity (W/m·K)	2.5	ASTM D5470
Flame Rating	V-0	UL94 (E331100)

## Instructions For Use

1. **Clean the surface:** Prepare the surface of the object to be glued or coated by cleaning it, removing rust, dust, and grease.
2. **Apply the adhesive:** Unscrew the cap of the adhesive tube, use the tip of the cap to pierce the seal, and squeeze the adhesive onto the cleaned surface for coating or pouring.
3. **Curing:** The coated parts will slowly form a skin when placed in the air, and any operations should be completed before the surface skins over. The curing process progresses from the surface inward, with the adhesive curing to a depth of 2-4mm within 24 hours (at room temperature and 55% relative humidity). If the area is deeper, especially in places that are not easily exposed to air, the complete curing time will be extended; if the temperature is lower, the curing time will also be prolonged.
4. **Note:** Do not move, use, or package the treated parts until sufficient strength has been achieved.

## Precautions

1. After the operation is completed, the unused adhesive should be tightened with the cap and stored sealed. When using it again, if there is a small amount of skin formed at the seal, it can be removed without affecting normal use. During storage, a small amount of curing may also occur at the tube opening; after removing it, it can be used normally without affecting the product's performance.
2. This product releases a small amount of by-products during the curing process, which may have slight irritation to the skin and eyes. It is recommended to use it in a well-ventilated area.
3. Keep out of reach of children.
4. If it accidentally comes into contact with skin, clean it off and then rinse with water; if it accidentally comes into contact with eyes, rinse immediately with water and seek medical attention.

### Global solutions: Local support

China: +86-769-38801208  
Taiwan: +886-2-2277-1007  
Canada: +001-604-2998559  
Vietnam: +84-396852859

service@ziitek.com  
www.ziitek.com

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