



General Purpose Silicone Adhesive Sealant

TE503 (C)

DESCRIPTION

TE503(C) is a one-component, oxime cure, silicone adhesive sealant which cures at room temperature with moisture in the air. This product bonds to most materials, such as metals, plastics, ceramics and glass without the use of primers.

KEY FEATURES

- ▶ Primerless adhesion to many substrates
- ▶ Neutral cure; Little risk of corrosion (corrosion to copper and copper alloys)
- ▶ Excellent high and low temperature resistance ; from -55°C to 200°C continuous operation
- ▶ Excellent weatherability, ozone, and chemical resistance
- ▶ Excellent electrical insulation properties
- ▶ Simple and easy-to-use one-component system
- ▶ Many color variations : Black, Clear, Gray, and White

APPLICATIONS

- ▶ A waterproof sealant for electrical and communication equipments
- ▶ Air-tight sealants for meters to keep out water and dust
- ▶ Windshield sealants for automobiles and ships
- ▶ Oil leakage preventive sealants for automobile engine parts
- ▶ Sealing and potting to equipments which require cold and heat resistance and flame retardant
- ▶ General adhesion for metals, glass, plastic, wooden, etc

TYPICAL PROPERTY DATA

(JIS K 6249)

BOFORE CURING	
Appearance	Flowing paste
Colours	Clear
Cure Type	Oxime
Specific Gravity at 25°C (g/ml) (standards ISO R 1183,DIN 53479,NMRPS 703)	0.97
Flowability (mm*mm/10g)	80*80
Viscosity (cps)	10510

CURING	
Tack-free Time (min) (23°C, 50%)	39
Cured thickness after 48h (mm) (23°C, 50%)	3.77



TE503(C)

CURED PRODUCT	
Specific Gravity at 25°C (g/ml) (standards ISO2781,ASTM D297,BS 903 Part A1)	0.97
Shore A hardness (Standards ISO R868,DIN 53505,ASTM D 2240, BS 903 Part A7,NFT 46003,NMRPS 471)	31
Tensile Strength (kg.f/cm ²) (Standards ISO R37(H2),DIN 53504,ASTM D 412, BS903 Part A2,NFT 46002(H2),NMRPS 470)	7.8
Elongtion at break (%) (Standards ISO R37(H2),DIN 53504,ASTM D 412, BS903 Part A2,NFT 46002(H2),NMRPS 470)	345
Dielectric strength (KV/mm) (standards NF C 26225,ASTM D 419,IEC 243)	22
Dielectric constant at 1 MHZ (standards NF C 26230,ASTM D 150,IEC 250)	3.4
Power factor at 1 KHZ (standards NF C 26250,ASTM D 150,IEC 250)	1.97x10 ⁻³
Volume resistivity,Ω.cm (standards NF C 26215,ASTM D 257,IEC 93)	1x10 ¹⁵

* Testing is performed in accordance with current EST material test methods, laboratory

* Typical property data values should not be use as specifications

SPECIFICATION

Typical product data values should not be used as specification. Assistance and specification are available by contacting YanTai E.S.T. silicone technology co.,LTD

HANDLING AND SAFETY

When solvent are used, proper safety precautions must be considered toxic and must be used only in well ventilated areas.

USABLE LIFE AND STORAGE

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 12 months from the date of manufacture.



CAUTION!	HANDLING PRECAUTIONS	FIRST AID MEASURES
1.FOR INDUSTRIAL USE ONLY 2.This product is neither terted nor representde as suitable for medical or pharmaceutical uses. 3.Do not use this product for other than its intended use,or user shall bear responsibility for any problems.	1.Wear suitable protective goggles, respirator and gloves. 2.Use only where an adequate ventilation system is available to sxhaust poisonous gases. 3.After handling,wash face and hands very thoroughly. 4.Keep out of reach of children. 5.Store in a cool,dark and dry place.	1.Inhalation:Remove to fresh air and get medical attention immediately. 2.Eye contact:Immediately flush eyes with plenty of water for at lest 15minutes.Get medical attention immediately. 3.Skin contact:Immediately flush skin with plenty of soop and water for at least15minutes.Get medical attention immediatly. 4.Ingestion:Induce vomiting and get medical attention immediately. 5.See material safety data sheet.