



**ShangHai King Chemical.,Ltd**

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## KY-901 Product technical data

### Technical Data Sheet

**Product introduction:** Gas Silicon Dioxide

**Product model:** KY-901

#### **Product introduction:**

The KY-901 is a hydrophobically vapor-phase silicon dioxide prepared by DDS (dimethyldichlorosilane) with a specific surface area of 120 m<sup>2</sup>/g. Using advanced technology, with a narrow particle size distribution and good free flow characteristics.

#### **Application::**

**PAINT COATINGS:** Epoxy coatings, alkyd resin coatings, acrylic resin coatings, zinc rich coatings, powder coatings, etc. .

**UNSATURATED POLYESTER:** Laminating Resin, GEL coating, grouting mixture, polar resin (epoxy, Vinyl Resin series) .

**PVC/PE:** plasticized Sol, organic Sol, plasticized PVC compound, cable compound, dry mix, film and sheet. Printing ink: Letterpress, intaglio, screen, flexographic, offset printing ink.

**SEALANTS and ADHESIVES:** polychloroprene based, epoxy, polyurethane resin, acrylic based, emulsion based, etc.

Suitable for RTV-1K single component silicone sealant thickening and strengthening hydrophobic products; improve the storage performance of silicone sealant; waterproof, hydrophobic and thickening (complex) liquid system rheological control; for anti-settlement of coatings, to improve the stability of pigments and strengthen corrosion protection; to improve the hydrophobicity and rheology of offset printing ink; to promote and maintain the flow of powder and anti-caking.

Product versus Standard Wins Degussa R972, Cabot TS610, Wacker H15 and Tokuyama DM-10.



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### Physical and chemical specification:

Inspection item	Indicators	Measured value
Appearance	White flocculent powder	White flocculent powder
Specific Surface Area ( m <sup>2</sup> / g)	110±20	117
Mean Primary Particle size	16nm	16nm
PH (%)	3.8-5.0	4.46
Drying decrement (%)	≤0.5	0.25
Burn reduction (%)	≤2.0	1.3
Sieve residue (%)	≤0.05	0.01
Apparent density (g/L)	40-60	45
Silicon dioxide (%)	≥99.8	99.9
Carbon content (%)	0.6- 1.2	1.08
Moisture content (wt.%) 5 °C for 2 hours	≤0.5	Qualified

### Administration and dosage:

Powder coating: Sprinkle the product into the sheet material, and pass through ACM mill, cyclone separation and screening. The recommended dosage is 0.1-0.2%.

High temperature vulcanized silicone rubber (HTV): 10-50%; Room temperature vulcanized silicone rubber(RTV) 3-20%; Adhesive: 1-8%; Coating, leather, ink and paint: 0.5-3%; Rubber and elastomer: 1-10%; Plastic, resin and atomic ash: 0.3-3%; Defoamer, catalyst, carrier, printing coating, grinding: 0.3-2%.

Added according to the proportion of Evonik Degussa R972, Cabot TS610, Wacker H15 and Deshan DM-10.

### Packaging, storage and transportation:

Packing: 10kg; Whole Trailer (quantity): 200kg, 240kg, 330kg, 360kg;  
Complete vehicle: 9 tons.

It is recommended that the stacking height should not exceed 7 layers.



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The storage environment shall be ventilated and dry. It is recommended to use it as soon as possible after opening the bag.