

## Putulin Series

### Calcined Kaolin

**INCI Name:** **Kaolin**

Chinese calcined kaolin of coal measures, it is produced by dry crushing, wet grinding and stripping, and high-temperature calcination. It has natural small particle size, flaky porous structure, large specific surface area with strong adsorption and suspension performance, high whiteness, strong covering power, and can be partial substitution of titanium dioxide to reduce cost. Removing interlayer impurities by wet grinding, it has lower heavy metals and improves safety. With stable physical and chemical properties, it has high thermal stability, as well as acid and alkali resistance. Its hydrophobic surface modification helps to improve compatibility with high polymer composites, achieving excellent dispersion effect.

### Product Parameters:

Appearance: (visual inspection)	White powder
<b>Al<sub>2</sub>O<sub>3</sub> (%)</b> :	≥44
<b>SiO<sub>2</sub> (%)</b> :	≥52
Fineness (% , ≤2μm):	80
Whiteness (%):	≥88.0
Loss on drying (%):	≤0.5
pH value:	5.5-8.0
Oil absorption(ml/100g):	50-90
Refractive index:	1.62

### Product Specifications:

Product name	Mesh	Specific surface area (m <sup>2</sup> /g)	Dispersion property
Non surface modified product			
Putulin G 2	5000	8	Universal
Putulin G 8	1800	7	Universal
Surface modified product			
Putulin GS 2	5000	2	Lipophilic

## Product Features and Applications:

### Features:

- 1)  $\text{SiO}_2 \geq 52\%$ ,  $\text{Al}_2\text{O}_3 \geq 44\%$ , high purity, almost no harmful substances, available for high demand products.
- 2) High whiteness, fine particles, good covering power, partial substitution of titanium dioxide to reduce product cost, improvement in the weatherability and scrub resistance of coatings
- 3) Low dielectric constant, chemical inertness, thermal stability, wear resistance, perfect for wire and cable filler.
- 4) Porous surface with large specific surface area, good dispersity and suspensibility, excellent anti settling effect.
- 5) Putulin GS 2 is an oleophilic surface modified product with excellent dispersity in resin and organic polymer.

### Applications:

Coating, ink, paper, engineering plastics, rubber, wire, cable, ceramic glaze

## Storage Information:

Manufacture area:	China
Packing:	30 kg/ barrel
Storage:	Sealed, storage in a cool and dry place away from light
Shelf life:	36 months

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