

### METAKAOLIN TECHNICAL DATA SHEET

#### Section 1: Product Description

Metakaolin is a highly reactive pozzolan that is produced by calcining kaolin clay at high temperatures. The calcination process transforms the raw material into a fine white powder that has a high concentration of amorphous silica and alumina. The resulting metakaolin has a significantly higher reactivity than the original kaolin clay, which makes it an ideal material for use in a variety of applications.

#### Section 2: Typical Applications

Metakaolin is used in a variety of industries, including construction, ceramics, and paints. In the construction industry, metakaolin is used as a pozzolan to improve the strength and durability of concrete. It can also be used as a filler in concrete, mortar, and other construction materials.

In the ceramics industry, metakaolin is used as a raw material for the production of porcelain and other high-performance ceramics. The high purity and consistent quality of metakaolin make it an ideal material for use in ceramics.

In the paint industry, metakaolin is used as a functional filler to improve the rheological properties of paint. It can also be used to enhance the opacity and whiteness of paint.

#### Section 3: Typical Technical Specifications

SPECIFICATIONS		
Chemical Requirements	Range	Typical
Silicon Dioxide (SiO <sub>2</sub> ) %	54±2	54.5%
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) %	43±2	44.2%
Physical Requirements	Range	Typical
Oversize percent retained on 45 μm(325 sieve)	2% Maximum	0.45%
Activation index(28days)	105% Minimum	120%
Whiteness	50% Minimum	58%
Moisture	1% Maximum	0.46%

## Section 4: STORAGE

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Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture.

## Section 5: SAFETY AND HANDLING PRECAUTIONS

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Please refer to the product's Safety Data Sheet (SDS) for detailed information on safe handling, first aid measures, and disposal. It is recommended to wear appropriate personal protective equipment (e.g., gloves, safety glasses, and dust mask) when handling this product, especially to avoid dust inhalation.

Country of origin: China