

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Calcium Hydroxide
- English Name: Calcium Hydroxide; Slaked Lime
- CAS Number:1305-62-0
- Formula:Ca(OH)₂
- Molecular Weight:74.10 g/mol
- Product Characteristics: White powder with slight alkaline odor. High-purity strong base with moderate corrosivity. Chemically stable, non-flammable, slightly soluble in water. Suitable for construction, water treatment, and chemical synthesis.

2. Technical Specifications

Item	Specification
Appearance	White powder
Purity (Ca(OH) ₂ Content)	≥ 95.0%
Water Content	≤ 2.0%
Carbonate (as CaCO ₃)	≤ 3.0%
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Iron (Fe)	≤ 1 ppm
pH Value (1% aqueous suspension, 25°C)	12.0-13.0
Solubility (25°C)	1.7 g/100 mL water
Particle Size (D50)	20-50 μm

3. Product Advantages

1. High Purity: Low impurity content ensures stable performance in neutralization and adsorption.
2. Moderate Alkalinity: Ideal for pH adjustment and water treatment.
3. Low Cost-Effective: Economical for large-scale industrial applications.
4. Environmental Friendly: Non-toxic, biodegradable after neutralization.

4. Application Fields

- Construction Industry: Production of mortar, plaster, and cement.
- Water Treatment: pH adjustment, fluoride removal, and wastewater neutralization.
- Chemical Synthesis: Precursor for calcium salts and organic intermediates.
- Laboratory Research: Analytical reagent and pH adjuster.

5. Usage Methods

- Dosage: 10-50% concentration (slurry form for water treatment).
- Application: Mix with water to form slurry; add slowly to target system.
- Optimal Conditions: Operate in well-ventilated areas; avoid contact with acids and moisture.

6. Packaging & Storage



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- Packaging: 1kg/5kg HDPE bags, 25kg woven bags, 50kg steel drums (UN-approved).
- Storage: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); sealed, moisture-proof, away from acids.
- Shelf Life: 12 months (unopened, specified conditions).
- Transportation: Classified as corrosive hazardous goods; transport per regulations.

7. Safety & Protection

- Moderately corrosive and irritating: No smoking near storage/use areas.
- Wear dust mask, nitrile rubber gloves, and chemical safety goggles.
- Avoid dust inhalation, skin contact, and ingestion; ensure local exhaust ventilation.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Each batch comes with a COA for compliance verification.
- Provide technical support for safe application and dosage adjustment.



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