

Technical Specifications

Item	Specification
Appearance	White beads/granular solid
SiO ₂ Content	≥ 98.0%
Moisture Adsorption Capacity (25°C, 60% RH)	≥ 30%
Moisture Content (as packed)	≤ 5.0%
pH Value (5% suspension, 25°C)	5.5-7.5
Heavy Metals (Pb)	≤ 0.001%
Iron (Fe)	≤ 0.01%
Particle Size	1-5 mm (customizable)
Loss on Ignition (1000°C, 2h)	≤ 8.0%
Specific Surface Area	500-900 m ² /g
Regeneration Temperature	120-150°C

3. Product Advantages

- High adsorption capacity and fast adsorption rate.
- Regenerable for multiple uses, cost-effective.
- Non-toxic, non-corrosive, safe for food and pharmaceutical contact.
- Chemically stable, compatible with most materials.
- Customizable particle size and adsorption properties.

4. Application Fields

- Desiccant: Food packaging (preserve freshness), electronics (prevent moisture damage), pharmaceuticals (protect drugs), shipping containers.
- Adsorbent: Wastewater treatment (remove organic pollutants), air purification (odor removal), solvent recovery.
- Catalyst Support: Carrier for petrochemical catalysts, environmental catalysts.
- Chromatography: Stationary phase for gas and liquid chromatography.
- Other: Pet litter (odor and moisture absorption), cosmetic additives (oil absorption).

5. Usage Methods

- Desiccant: Place 5-50 g per 1 m³ enclosed space; replace when saturated (color change for indicator silica gel).
- Adsorbent: Pack into columns or beds; flow rate 1-5 BV/h (bed volume per hour).
- Regeneration: Heat saturated silica gel at 120-150°C for 2-4 hours; cool before reuse.
- Optimal Conditions: Use at 0-60°C, relative humidity 0-90%.

6. Packaging & Storage

- Packaging Specifications: 100 g/bag (tyvek bag), 1 kg/bag (plastic bag), 25 kg/drum (HDPE), 1000 kg/IBC tote.



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- Storage Conditions: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed. Temperature $\leq 30^{\circ}\text{C}$.
- Shelf Life: 24 months (unopened).
- Transportation: Handled as non-dangerous goods; avoid collision and moisture.

7. Safety & Protection

- Wear protective gloves and safety goggles during handling.
- Avoid eye and skin contact; rinse immediately if contact occurs.
- Keep away from hydrofluoric acid and strong alkalis.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Food-contact grade products meet FDA and EU food safety standards.
- Each batch accompanied by COA.



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