



Stardust Industrial Materials Brochure

– Your Trusted Partner in Advanced Absorbents & Desiccants

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Catalogue



Montmorillonite Desiccant Clay.....P1

Montmorillonite Powder.....P2

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Montmorillonite Desiccant Clay



Stardust Natural calcium bentonite-based desiccant with high hygroscopicity, ideal for moisture control in packaging, storage, and transportation.
Manufactured Under U.S. MIL-D-3464E & Japan JIS Z-0701 standards

Applications

- **Pharmaceutical Packaging** – Maintains low humidity to extend drug shelf life and stability.
- **Electronics & Components Storage** – Protects sensitive parts from moisture damage during storage and shipping.
- **Food & Grain Preservation** – Prevents mold and spoilage by controlling ambient moisture.
- **Industrial Drying Processes** – Used as a cost-effective desiccant in closed systems and containers.

Key Specifications

- **Moisture absorption:** >18% (25°C, 40% RH)
- **pH:** 6.8–7.6
- **Bulk density:** 0.95–0.98 g/L
- **Particle size:** 0.5–1mm/1-3mm/1-4 mm, etc
- **Chloride-free, non-carbonate**
- **Montmorillonite content:** $\geq 95\%$



Montmorillonite Clay

Stardust Magnesium aluminum silicate gel, used as a suspending and thixotropic agent in various formulations.

Applications

- **Pesticide & Fertilizer Suspensions** – Improves stability and sprayability of agrochemicals.
- **Cosmetic & Personal Care Products** – Acts as a natural thickener and stabilizer in creams and lotions.
- **Paint & Coating Additives** – Enhances viscosity and prevents settling of pigments.
- **Ceramic & Construction Materials** – Improves plasticity and workability in clay bodies and mortars.

Key Specifications:

Montmorillonite content: $\geq 95\%$

pH: 9.4–10.0

Viscosity: >250 cps (5% suspension, customized supported)

Appearance: Off-white powder

Non-hazardous, GHS-compliant



4A Molecular Sieve Clay



Stardust Sodium aluminosilicate adsorbent with uniform pore structure, excellent for drying and purifying gases and liquids.

Applications

- **Natural Gas Drying** – Removes water vapor to prevent pipeline corrosion and hydrate formation.
- **Refrigerant Dehydration** – Ensures efficient cooling system operation by eliminating moisture.
- **Petrochemical Purification** – Separates and purifies hydrocarbons in refining processes.
- **Insulated Glass Desiccant** – Maintains clarity and prevents fogging in double-glazed units.

Key Specifications:

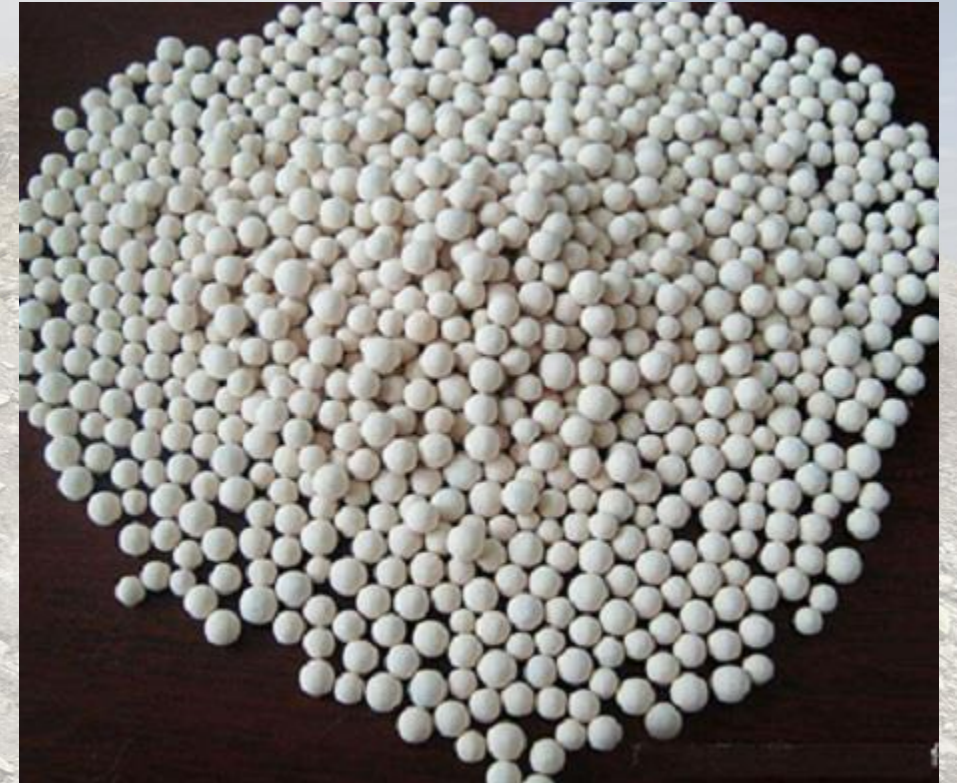
Pore diameter: 4 Å

Bulk density: ~0.7 g/cm³

pH (5% suspension): ~10–11

Water adsorption capacity: ≥20%

Thermal stability: >700°C



Sodium Bentonite Cat Litter



Stardust Natural clumping cat litter made from sodium bentonite, offering superior absorbency and odor control.

Advantages

- **Pet Care & Hygiene Products** – Forms solid clumps for easy waste removal and odor containment.
- **Animal Bedding** – Provides a dry and comfortable environment for livestock and small animals.
- **Absorbent for Spill Control** – Used in industrial and workshop settings to absorb oils and liquids.

Key Specifications:

Bentonite content: >98%

pH: 8.0–10.0

Bulk density: 0.9–1.1 g/cm³

Dust-minimized, low tracking

Non-toxic, pet-safe



Contact Us



More information, certificates, or free samples?
Feel free to get in touch with us!

We provide the best for you!
Thank you !

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