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HEY-AG-D Aerogel Powder

➢ Product Introduction:

HEY-AG-D Aerogel Powder refers to a SiO_2 aerogel powder product featuring a nanoporous structure. This product exhibits extremely high porosity, extremely low density, high specific surface area, and ultra-high pore volume. It also possesses excellent thermal insulation properties, good sound insulation, strong adsorption capacity, eco-friendly, flame-retardant, and water-repellent.

➢ Product Characteristics:

(1) Exceptional thermal insulation: Thermal conductivity below 0.018 W/m·K at room temperature (25°C).

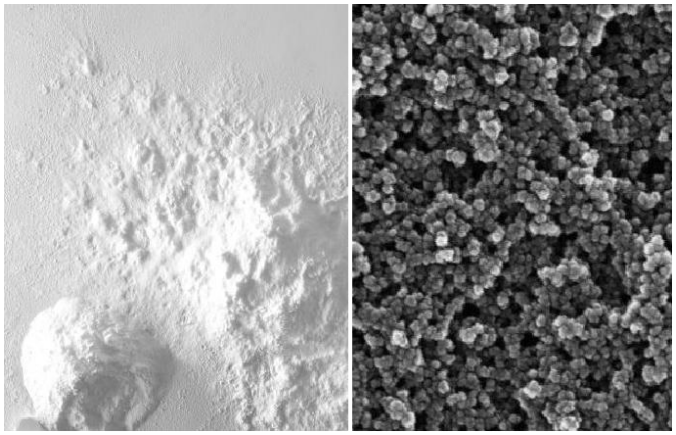
(2) High hydrophobicity: Lotus-leaf-like water repellency with water repellency rate ≥90%.

(3) Ultra-low density: Lightweight with porosity exceeding 90%.

(4) Eco-friendly: Composed of inorganic materials, free from harmful substances, ensuring safety and reliability.

(5) Long-lasting heat resistance: Unique nano-three-dimensional network structure provides outstanding thermal stability, preventing performance degradation common in traditional insulation materials over time.

(6) Strong Adsorption: Aerogel powder possesses high surface area and outstanding adsorption properties.



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➢ Product Applications:

(1) Suitable for manufacturing water-based aerogel insulation coatings and water-based aerogel slurries.

(2) Polyester chips and functional polyester films.

(3) Filler for insulating foam boards.

(4) Purification and adsorption functional fillers.

(5) Nano-oil repellent agents with “strong hydrophobicity and strong oleophilia”—repelling water while attracting oil.

(6) Reducing composite material density while enhancing thermal insulation, fire resistance, and impact resistance.



➢ Technical Parameters:

Product Model	HEY-AG-D			Inspection Standards
Product Specifications	Packaging	/	Bagged	Q_ZNKJ 001
	Appearance Condition	/	White powder	
Performance Parameters	Thermal conductivity	W/（m·K）	≤0.018（25℃）	ISO 22007-2
	Specific surface area	m^2/g	600~800	GB/T 19587
	Bulk density	kg/m	20~100	GB/T 5211.4
	Particle size	μm	15、5	GB/T 1907
	Bore Diameter	nm	20~50	Nitrogen adsorption and desorption

	Porosity	%	90~95	Skeletal density back-calculation method
	Chloride content	mg/kg	Not detected	JY/T 020
	Surface properties	/	Hydrophobic	GB/T 30693
Others	Particle size can be customized			

➢ **Precautions:**

Safety Protection Standards: Aerogel products are environmentally friendly, safe, and non-toxic. However, dust generation may occur during transportation and construction. Install exhaust equipment in dust-prone areas. Construction personnel must wear dust masks, gloves, goggles, and other protective gear throughout the process. Avoid direct skin and eye contact.

Transportation and Storage: Transportation vehicles must have dry, rainproof measures. Handle with care during loading/unloading and transportation to prevent crushing. Store in dry, ventilated, rainproof conditions, away from fire sources, heat sources, and chemical solvents. Stack by type and specification, avoiding heavy pressure.

Note: *The product technical information and related data described above are test values obtained from our company's experiments. They are for reference only and do not constitute legal interpretations or guarantees. Before use, please test and confirm according to your company's required working conditions.*