WISESORBENT Technology

Call today
to request samples

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info@wisesorbent.com

HIGH-QUALITY SILICA GEL

Silica gel is an amorphous form of silicon dioxide used as a desiccant to absorb moisture. It comes in two main types: Type A and Type B, differing in absorption and physical traits. Regardless of type, silica gel has a crucial regenerative quality: when saturated with moisture, it can be restored through heating or baking, making it cost-effective and reusable.

WHAT ARE THE CHARACTERISTICS OF SILICA GEL DESICCANT?

POWERFUL MOISTURE ABSORPTION
Silica gel desiccant can absorb a significant amount of moisture in high humidity environments.

STABLE CHEMICAL PROPERTIES
Strong resistance to acids and bases and does not undergo chemical reactions.

GOOD THERMAL STABILITY
Maintain stability without decomposition or deformation under high temperature conditions.

ENVIRONMENTALLY FRIENDLY & NON-TOXIC
Non-toxic to human and doesn't cause environmental pollution.

REGENERATION CAPABILITY
Can be dehydrated and regenerated through baking or heating.

WHAT IS THE METHOD FOR PRODUCING RAW MATERIALS FOR SILICA GEL DESICCANT?

Silica gel desiccant is produced from sodium silicate, mixed with sulfuric acid in a controlled reaction, forming fine-pored silica gel particles. After aging and washing to remove impurities and acid traces, the wet gel is dried via air drying or spray drying. The production parameters, including reaction conditions and drying methods, shape the pore size and absorption traits, influencing its applicability as a moisture-absorbing material.

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WHAT IS TYPE A SILICA GEL DESICCANT?

Type A Silica Gel Desiccant, produced from sodium silicate and sulfuric acid, is renowned for its strong moisture absorption. It exists as colorless or slightly white granules and can be converted into Indicating silica gel with a dye, displaying color changes (often orange or green) during moisture absorption. This characteristic is beneficial for monitoring and controlling humidity levels across different applications.

WHAT IS TYPE B SILICA GEL DESICCANT?

Silica gel desiccant is produced from sodium silicate, mixed with sulfuric acid in a controlled reaction, forming fine-pored silica gel particles. After aging and washing to remove impurities and acid traces, the wet gel is dried via air drying or spray drying. The production parameters, including reaction conditions and drying methods, shape the pore size and absorption traits, influencing its applicability as a moisture-absorbing material.

WHAT CAN SILICA GEL DESICCANT BE USED FOR?

PACKAGING
Safeguarding electronics, leather goods, pharmaceuticals, and food from moisture during storage and transport.

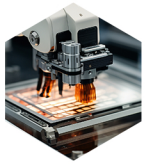
STORAGE
Preventing mold growth, corrosion, and deterioration of items

GUN STORAGE
Preventing rust & moisture damage to firearms and ammunition

ELECTRONICS
Absorbing moisture and prevent condensation that could damage sensitive electronic components.

AUTOMOBILES
Absorbing moisture and prevent condensation that could damage sensitive electronic components.

MUSICAL INSTRUMENTS
Absorbing moisture and prevent condensation that could damage sensitive electronic components.



INDUSTRIAL AND MANUFACTURING
Used in industrial processes to control humidity in manufacturing.

· For additional desiccant solutions visit wisesorbent.com ·

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