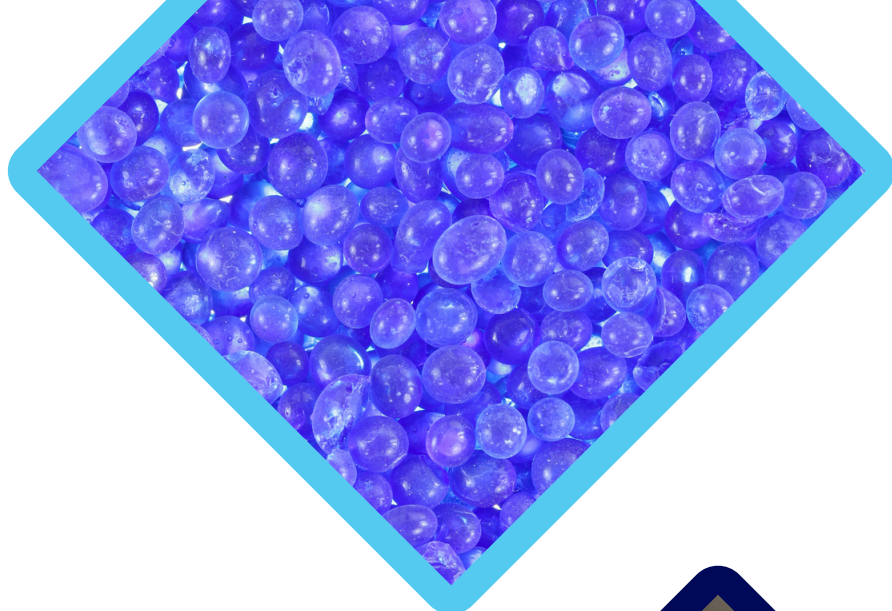




MERYT
Catalysts & Innovation



SILICA GEL

Your ally against humidity

Protect and optimise your products with Silica Gel

More information



info@meryt-chemical.com

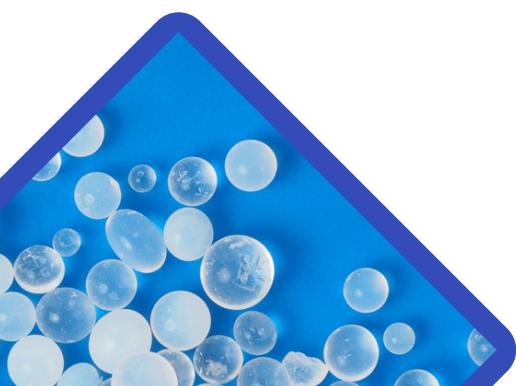
MERYT Catalysts & Innovation

Silica Gel

Silica Gel is a desiccant material composed mainly of silicon dioxide (SiO_2), known for its high moisture adsorption capacity. It is inert, non-toxic and available in various forms to suit multiple industrial and commercial applications. In addition to water, Silica Gel can adsorb volatile organic compounds (VOCs), hydrocarbons, alcohols and some gaseous impurities, depending on the type used.

Benefits

- High moisture adsorption capacity.
- Adsorbs other compounds such as hydrocarbons, alcohols and volatile organic compounds.
- Reusable after regeneration (heating to 120-150°C).
- Non-corrosive and non-toxic (except blue type with cobalt).
- Wide range of applications: from electronics protection to industrial chemical processes.
- Chemical Stability: Does not react with most chemical compounds.
- Protection Efficiency: Helps preserve products sensitive to moisture and degradation.



Types

01

MERYT Silica Gel Type A

- Description: With small pores (20-30 Å), ideal for adsorption of water and polar compounds..
- Uses: Desiccant for electronic, pharmaceutical and food products.s.

02

MERYT Silica Gel Type B

- Description: With medium pores (60-100 Å), suitable for adsorbing larger molecules such as hydrocarbons.
- Uses: Industrial gas treatment and chromatographic separation.
- Paints and coatings: Helps to stabilise products in humid environments.

03

MERYT Silica Gel Type C

- Description: More open structure, suitable for adsorbing organic compounds and oils.
- Uses: Gas purification and removal of contaminants in chemical processes.



Types

04

MERYT Blue Silica Gel

- Description: Contains cobalt chloride, which changes from blue to pink when saturated with moisture.
- Uses: Moisture control in electronic equipment, laboratories, and pharmaceutical industries.

05

MERYT Orange Silica Gel

- Description: Contains a heavy metal free indicator, changing from orange to dark green on adsorption of water.
- Uses: Suitable for environments where contact with food, medical or pharmaceutical products is possible.

06

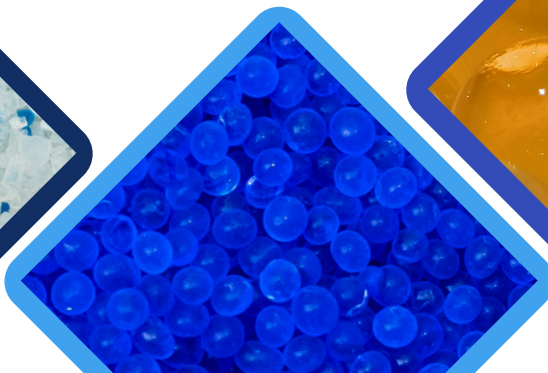
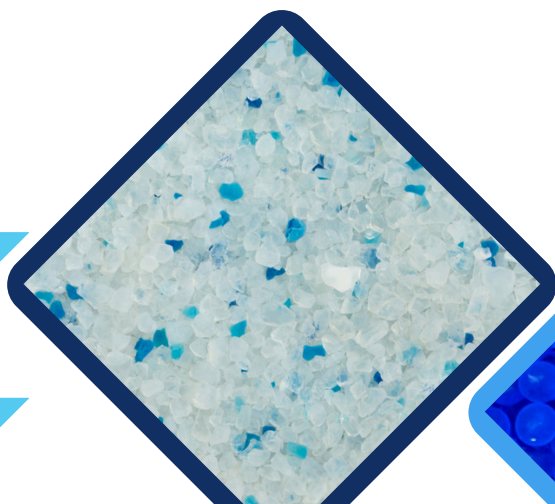
MERYT White Silica Gel (Transparent or Without Indicator)

- Description: Pure Silica Gel, without additives or indicators.
- Uses: Protection of electronics, important documents, leather and textiles.

07

MERYT Spheric Silica Gel

- Description: Uniform granular presentation that improves airflow distribution to optimise adsorption.
- Uses: Drying of industrial gases, chromatographic separation processes and in desiccant columns.



Physicochemical characteristics

TYPES OF SILICA GEL	PARTICLE SIZE (mm)	BULK DENSITY (g/cm ³)	SPECIFIC SURFACE (m ² /g)	POROSITY (%)	ADSORPTION CAPACITY (%W)
MERYT SILICA GEL TYPE A	1 - 3	0.65-0.75	750-850	60-70	35-45
MERYT SILICA GEL TYPE B	2-5	0.7-0.8	700-800	55-65	30-40
MERYT SILICA GEL TYPE C	3-6	0.8-0.9	650-750	50-60	25-35
MERYT BLUE SILICA GEL	2-4	0.7-0.8	600-800	50-60	20-40
MERYT ORANGE SILICA GEL	2-5	0.75-0.85	700-800	55-65	30-40
MERYT WHITE SILICA GEL	1-3	0.65-0.75	750-850	60-70	35-45
MERYT SPHERIC SILICA GEL	3-6	0.8-0.9	800-900	65-75	40-50



MERYT
Catalysts & Innovation

Customised Solutions

We offer a wide range of products tailored to your needs. If you are looking for a specific type of silica gel, we can supply it according to your company's requirements.

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