Silicon is the second most important element in our planet after oxygen. Our installations are located close to the mines, allowing a significant reduction in transport costs. Extraction is facilitated by the fact that quartz is at ground level. We transform the stones into quartz sand with very high purity.

SINCHEM applies an environmentally friendly and highly-efficient energy to achieve sustainable development for a green chemical industry.


SINCHEM is present in China, in the Shandong province close to the mines and to Qingdao, Shanghai, Tianjin ports and in Europe in Strasbourg, France.

SINCHEM persistently upgrades its installations: in 2016 with a new warehouse of 6000 sq. meters and a new plant with an increase in capacity of 35% is planned for 2017.

Products are used in cat litter, paint, absorption separation purification, silicon rubber and tire filler, desiccant, indicators, pharmaceutical personal care (cosmetics, toothpaste, pharmaceutical silica) and catalysts. More than 25% of our products sold today did not exist three years ago.

Forty-five engineers in Chemistry, Mine Exploitation, Industrial Process, Quality Control, Machinery, Electronics, Electricity and Environmental Protection guarantee evolving knowledge and talent. SINCHEM has established long-term agreements with external suppliers.
Chromatography silica gel is a high-class selective absorption material composed by structured-aggregation colloid particles. Colloid particle is the polycondensate of hydrated silica gel, it is a amorphous substance. The gap between colloid particle forms the micropore structure inside silica gel granules. Therefore, Chromatography silica gel is a superior absorbent material with micropore structure, high specific surface area, high purity and high activity.

Chromatography silica gel is widely used in the separation and purification of effective components in Chinese herbs, preparation of high purity materials, dehydration and refining of organic products and brewing industry.

Silica gel fertilizer can enhance disease resistance of rice, improve its setting percentage, stimulate the growth and increase the yield.

It can also be benefit to crops’ photosynthesis and increase chlorophyll content, make the stem and leaf straight and upright, promote the accumulation of organic matter.

Silica gel fertilizer can strengthen the mechanical strength of crops’ stems, enlarge the lodging-resistance capability by more than 85 percent to make stems straight and strong, so it is good for compact planting.

It can improve the crops’ resistance to plant diseases and insect pests, to reduce various kinds of plant diseases and insect pests.
04 ELECTRONICS

Silica gel desiccant can protect semiconductor, circuit board and all kinds of photoelectric elements from moisture, static and corrosion during the storage.

05 HOUSING

Adsorption of formaldehyde, benzene series, ammonia, radon and some other harmful gas along with floating bacteria in the air.

Air humidity adjustment, odour control, mould proof, and sterilization in hotels and hostels, offices, living rooms, bathrooms, kitchens, ashtrays, cars, shoes and refrigerator.

06 CAT LITTER

Silica Gel Cat Litter has strong and fast absorption capacity, it can completely absorb the cat urine or liquid in feces in seconds as well as the smell. It can inhibit bacteria from growing, the pets can live in a clean and safe environment.
# SILICA GEL CAT LITTERS

## CRITERIA FOR CAT LITTER

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>CLEANABILITY</strong></td>
<td>The frequency and the ease of cleaning.</td>
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<tr>
<td><strong>ABSORPTION</strong></td>
<td>The rapidity and the quantity of water absorption.</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL PROTECTION</strong></td>
<td>The impact of the cat litter during its manufacturing, its transport; at home and the procedure of the after-treatment.</td>
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<tr>
<td><strong>CLUMPING</strong></td>
<td>The degree of agglomerate and the need.</td>
</tr>
<tr>
<td><strong>DEODORIZATION</strong></td>
<td>The degree of neutralization of the odors, its rapidity and period.</td>
</tr>
<tr>
<td><strong>COMFORT</strong></td>
<td>The softness for the cat and kitten.</td>
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TYPES

CLUMPY®
Clumping 0,5 to 2,0 mm

LENSY®
Semi bead 0,5 to 4,0 mm

STONEY®
Lumpy 1 to 8 mm
(1-4 mm, 4-8 mm, 1-6 mm)

SANDY®
Sugar 0,5 to 2,0 mm

PELLY®
Columnar 0,5 to 3,0 mm

COLORS

Transparent
All the colors are possible

ADDITIONAL

Fragrances, Anti-odor, Pheromones, Health indicator

ANTIBACTERIAL

Silica Gel counts a great quantity of micro-pores which absorb water and all kinds of smell effectively.

After based on above special properties, processed and refined, Silica Gel Cat Litter is a new and ideal pet waste cleaning agents which have better properties of antiseptics than other cat litters.
SISORB®

TYPE A

Type A is used to put in the package of instruments, electronic products, leather, shoes, clothes, food, medicine and appliances. To prevent items against dampening, mildewing and rusting. To refine organic compounds by dehydration. To be used as the catalyst carrier.

Because of its high bulk density and high performance to absorb moisture in low humidity, it can be used as air cleaner to control the air moisture.

TYPE B

Low absorption capacity in low humidity compared to Type A. High absorption capacity in high humidity compared to Type A. Better than Type A in tropical and oceanic climates. It can adjust the moisture and it is much better to use to protect the calligraphy and painting, especially the ancient calligraphy, paintings and books.

SISPOWER®

PRESSURE SWING ABSORPTION

The PSA can absorb certain gases more easily than other gases, so the gas easily adsorbed can stay in the PSA silica gel and be separated from others gases. Used as catalyst and catalyst carrier in petroleum chemical field, dryer machine, liquid absorber, gas separating in industrial field CO2 and H2, and in the fabrication of NH3 and Urea.

SIDICCIA®

COLOR INDICATING SILICA

This product is mainly used for drying, indicating the degree of drying or humidity, and widely used in precise instruments, pharmaceuticals, petrochemicals, food, clothing, leather, home appliances.
MICRONIZED SILICA

Micronized silica is synthetic, amorphous, porous and acidic-base silica powder whose size ranges from 2 microns up to 20 microns. It is used as a matting agent and anti-blocking agent for plastics. Micronized silica products are manufactured to exacting consistency, purity and quality standards.

- Pore Volume: 0.4 to 2.5 cc/g
- Surface Area: 200 to 800 m²/g
- Oil Absorption: 90 to 400 cc/100g

SIS-CX®

CHROMATOGRAPHY SILICA GEL

It is the main chromatographic technique used to separate and refine the industrial material. It is mainly used to separate and refine traditional Chinese herbal medicine, synthetic chemicals and bio-active substances to get high-purity substances by absorption.

SIS-FNG®

FNG WATER PROOF SILICA GEL

Bead type is widely used, such as use as catalyst carrier, to dry and absorb inflammable acetylene and carbon dioxide to prevent the machine from freezing and blocking in gas separating field. Granular type can be used to refine water, it can be recycled after washing and drying. It can be used in aquariums, it can also remove the fishy smell and nitrite in water.