



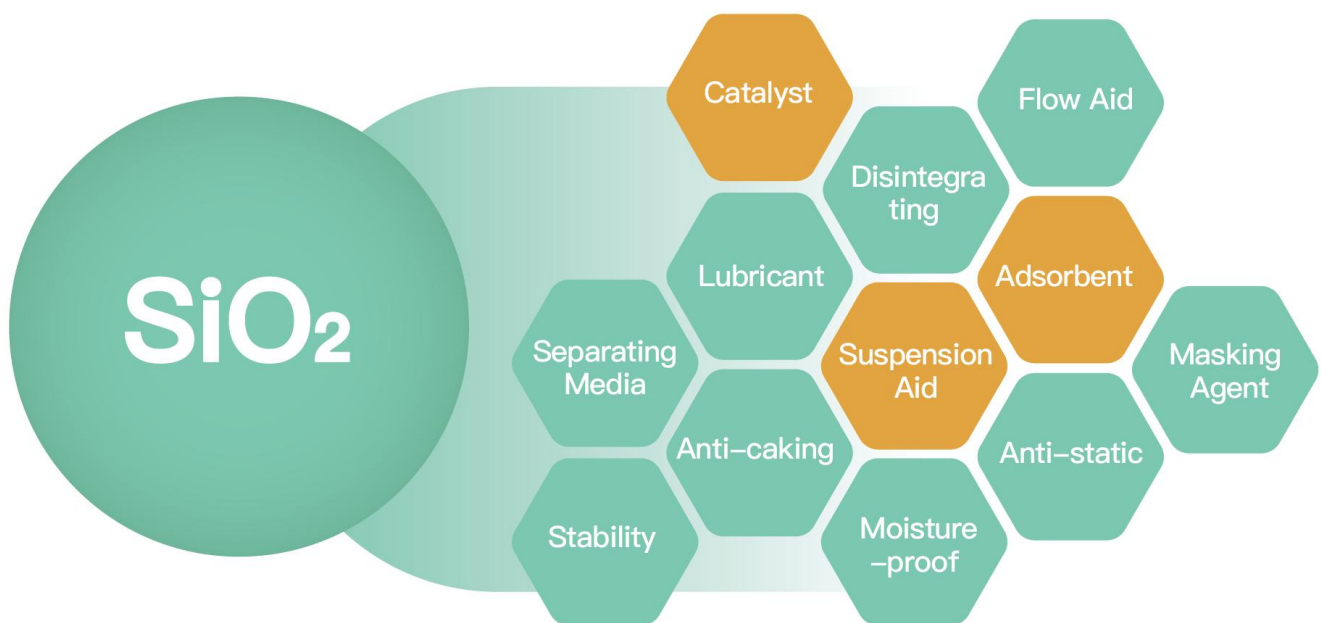
HENGZE SILICA GEL



Catalogue

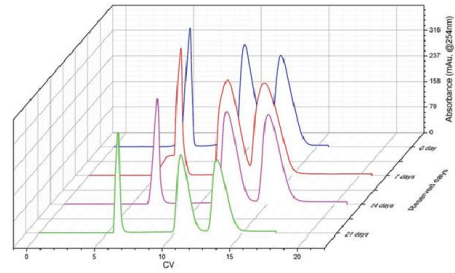
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Silica Gel for Column-layer Chromatography

柱层层析硅胶



* Characteristics

Column chromatographic silica gel is white and uniform granules, using high quality silica gel as raw material, the main component is silicon dioxide. It's main characteristic is that it can achieve the purpose of separation and purification by the difference of adsorbing retention time of different components in mixture.

* Application: as filter media.

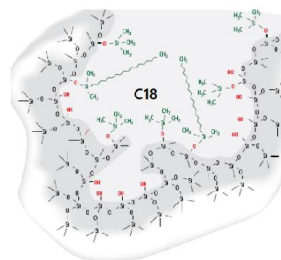
1. Column-layer chromatography silica gel is used for separation and purification of active ingredients of Chinese herbal medicine and preparation of high-purity substances.
2. Refining petroleum products and selective adsorption and separation of organic gases and liquids.
3. As catalyst carrier and chromatographic support.
4. Used for Urokinase production.

* Technical Data

Items	Specifications		
	30Å	60Å	90Å
Type/类型	30Å	60Å	90Å
Pore size/孔径	20-30	50-80	90-110
Pore volume/孔容	0.35-0.45	0.5-0.8	0.85-1.0
Surface area/比表面积	≥600	350-550	320-400
Bulk density/松散密度	≥650	500-600	400-500
Loss on heating/水分	5	5	5
SiO ₂ /二氧化硅	98	98	98
Size/规格	60-100/80-120/100-200/70-230/230-400/400-/...		
Packing/包装	Bottle, PE Bag, Compound Bag, Carton, Fiber/Plastic Drum, Super Sack...		

Silica Gel C18

C18硅胶



* Characteristics & Application

C18:

Conventional chromatographic applications with wide versatility. It is suitable for the separation and purification of most peptides, antibiotics and small molecules of natural products.

C18 AQ:

By controlling the bonding density to meet the use of 100% aqueous phase, the retention and selectivity of polar compounds are improved compared with conventional C18.

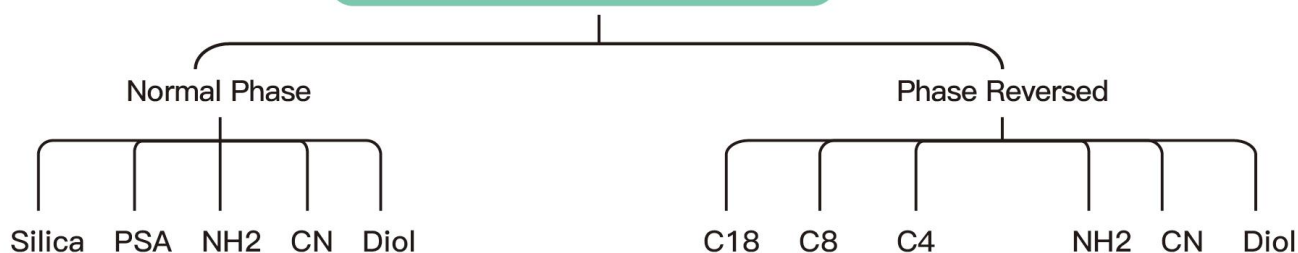
C18 Polar:

By introducing amide polar functional groups to meet the use of 100% aqueous phase, it has different selectivity from C18 AQ for polar compounds.

* Technical Data

Product/产品	C18					C18 AQ	C18 Polar
Bonded phase/键合相	Octadecyl					Octadecyl	Acylamino intercalated octadecyl
Size/规格	8/10		15/20/30/50		3/5/10	3/5/10	
Pore diameter/孔径	Å	100	120	200	300	120	120
Surface area/比表面积	m ² /g	≈450	≈350	≈250	≈100	≈350	≈350
Bulk density/堆积	g/ml	≈0.60	≈0.55	≈0.50	≈0.45	≈0.55	≈0.55
Carbon loading/碳载量	%≥	17	16	12	7	16	16
PH	2-8						
Packing/包装	Glass/Plastic Bottle, PE Bag...						

Chromatographic Filling Material



Thin Layer Chromatography Silica Gel

薄层层析硅胶

* Characteristics

Thin layer chromatography is white powder. It's insoluble in water and organic solvents. Because of the difference in retention time of different substances, it can make various substances achieve the purpose of separation and purification.

* Application

It is used for refinement of petroleum products (removal of aromatic hydrocarbons and other organic compounds), selective adsorption and separation of liquids, preparation of catalysts and chromatographic carriers. It is also a simple, fast and sensitive analytical reagent for column analysis of medicine, pesticides, dyes and rubber.

* Technical Data

Item	Specifications			
	Type-H	Type-HF254	Type-G	Type-GF254
Pore size/孔径 Å	60/90	60/90	60/90	60/90
Alcined gypsum/煨烧石膏 (CaSO ₄ ·1/2H ₂ O %)	—	—	12-14	12-14
Fluorescence/荧光	—	✓	—	✓
Chlorides (Cl ⁻)/氯离子 %≤	0.02	0.02	0.02	0.02
Iron (Fe)/铁离子 %≤	0.02	0.02	0.02	0.02
PH (10% suspended substance)	6.0-7.0	6.0-7.0	6.0-7.0	6.0-7.0
Activity/活度	Tricolor separation	Tricolor separation	Tricolor separation	Tricolor separation
Size (um)/规格	Normal: 10-40um High efficiency: 5-10um			
Packing/包装	Plastic bottle, 500g/bottle, 10 bottles/carton			

Thin Layer Chromatography (TLC) Silica Gel Plate

薄层层析硅胶板



* Characteristics

Uniform particle size, low metal content. Using adhesive with high temperature resistance and stable quality. Automatic planking equipment with uniform thickness to avoid manual errors. High separation effect, capable of effectively separating 16 substances.

* Application

This product can be directly used for qualitative or quantitative analysis of various types of organic substances. It has been widely used in the identification of trace impurities and main components in medicines, pesticides, Chinese herbal medicines, organic chemical products and food.

* Technical Data

Item	Specifications			
	Type-H	Type-HF254	Type-G	Type-GF254
Alcined gypsum/煨烧石膏	—	—	✓	✓
Fluorescence/荧光	—	✓	—	✓
Plate base/板基	Glass based/Alumina based			
Item	Glass based		Alumina based	
Coating thickness/涂层厚度	0.2–0.25/0.4–0.5/0.9–1.0mm		0.15–0.2mm	
Silica gel size/硅胶粒度	5–8um/10–30um		5–8um	
PH	6–7		6–7	
S-parameter/散射参数	SX=3		SX=3	

* Remark

Storage method: Store in dry and ventilated place. Do not store together with volatile substances. Once opened, it should be used up or need to sealed immediately so as not to affect the separation performance by absorbing moisture or adsorbing other chemicals. Thin layer chromatography silica gel plate with long storage time or adsorbing moisture can be used after drying and activation for 1–2 hours at 60–90°C.

Silica Gel for Beer 啤酒硅胶



* Characteristics

Silica gel for beer is non-crystalline micro-porous solid powder, specifically produced for beer stabilization. It combines good stabilization performance with excellent filtration and minimal dusting. Silica gel for beer selectively removes haze-forming proteins from beer without adversely affecting flavor, foam, or filtration rate..

* Application: mainly used in beer industry

- Food-grade product.
- Extends non-biological beer stability by removal of haze-forming proteins.
- Does not affect beer-foam active components.
- Insoluble in beer. Accepted by all brewing traditions.
- Non-hazardous and environmentally friendly.
- Cost-effective.

* Technical Data

Item		Specifications		
SiO ₂ /二氧化硅	%, \geq	98	98	98
Loss on heating/水分	%, \leq	10	40	60
Size (d50 value)/规格	um	7-15	15-20	15-20
Pore volume/孔容	ml/g	1.05-1.35	1.05-1.35	1.05-1.35
Pore diameter/孔径	Å	100-140	100-140	100-140
Surface area/比表面积	m ² /g	250-400	400-800	400-800
Calcium(Ca)/钙	\leq	0.02%	0.02%	0.02%
Iron(Fe)/铁	\leq	0.002%	0.002%	0.002%
Arsenic (As)/砷	\leq	1mg/kg	1mg/kg	1mg/kg
Lead (Pb)/铅	\leq	1mg/kg	1mg/kg	1mg/kg
Heavy metal(Pb)/重金属	\leq	30mg/kg	30mg/kg	30mg/kg
PH		5-8	2-6	2-6
Packing/包装		10kg/20kg/25kg bag(or customized)		

Silica Gel Powder as Catalyst

催化剂用微粉硅胶

* Characteristics

This product is made from high quality silica gel. It is characterized by high purity, less impurities (especially heavy metals). The particle size is even which makes it easy to synthesize catalysts.

* Application: as catalyst carrier.

Mainly used to produce HZSM-5 molecular sieve.



* Technical Data

Item		Specifications
Pore size/孔径	Å	90-100
Pore volume/孔容	ml/g	0.85-1.0
Surface area/比表面	m ² /g	320-450
Bulk density/堆积	g/L	350-500
Loss on heating/水分	%≤	8
Size/规格	mesh	≤35 or ≤100 (or customized)
Packing/包装		20kg/bag, 500kg/super sack (or customized)

Macro-pored Micro-spherical Silica Gel 粗孔微球硅胶



* Characteristics

The appearance of Macro-pored micro-spherical silica gel is white transparent or translucent. It has uniform microporous structure, stable physical and chemical properties, good thermal stability and high mechanical strength. The average pore size is 8.0–12.0 nm, the specific heat is 0.92 kJ/kg C, and the thermal conductivity is 0.167 kJ/mhr C.

* Application

This product is used as catalyst and catalyst carrier in the important industrial production of melamine, aniline, o-toluidine, vinyl acetate, phthalic anhydride, maleic anhydride, butadiene rubber, acrylonitrile, etc. It is also widely used in the refinement and removal of aromatic hydrocarbons from petrochemical products. It can also be used in pharmaceutical purification, selective adsorption separation of organic gases and liquids, and ion exchange for the removal of polyvalent harmful elements in water.

* Technical Data

Item		Specifications		
Size/粒度规格	mesh	20–40	40–120	80–160
Qualified size ratio/粒度合格率	%≥	85	80	80
Bulk density/松散密度	g/l≥	300		
Pore volume/孔容	ml/g	0.8–1.3		
Pore diameter/孔径	Å	80–110		
Loss on heating/水分	%≤	5		
Surface area/比表面积	m ² /g	300–550		
Appearance/外观		Translucent beads		
Packing/包装		20kg/bag, 500kg/super sack (or customized)		

Neutral Aluminum Oxide Powder

中性氧化铝粉

* Characteristics

This product is white fine powder, odorless, tasteless and non-toxic. It maintains a certain strength when mix with water. It is neutral and insoluble in water and organic solvents. It will be dissolved in strong acid and alkali solution when heating. The particle size is uniform, and when filling, the air permeability and water permeability are good. Neutral aluminum powder has moderate pore volume, specific surface area and activity.

* Application

This product is the extract of effective components extracted from traditional Chinese medicine, a good purifier in the process of decoloring and impurity removal, and will not produce harmful substances when using. In addition, it is also widely used in chromatography and drying process.

* Technical Data

Item		Specifications
Al ₂ O ₃	%	≥99
SiO ₂	%	≤0.08
Fe ₂ O ₃	%	≤0.03
Na ₂ O	%	≤0.4
Pore volume/孔容	cm ³ /g	≥0.2
Surface area/比表面积	m ² /g	> 150
Bulk density/堆积	g/l	850–950
Loss on heating/水分	%	≤5
PH		7.0±0.5
Size/粒度规格	mesh	80–150/100–200/200–300 (or customized)
Packing/包装		20kg/bag, 500kg/super sack (or customized)

BIOMEDICAL

- PURIFICATION OF COENZYME Q10
- VACCINE PREPARATION
- DRUG ADDITIVE
- DRUG SEPARATION

PHYTO-EXTRACTION

- CBD SEPARATION AND PURIFICATION
- CHINESE HERBAL SEPARATION

FINE CHEMICALS

- PETRO-CATALYST
- ORGANIC SYNTHESIS
- CATALYST CARRIER

PHOTOELECTRIC DISPLAY

- PURIFICATION OF ORGANIC OPTICAL MATERIALS
- PHOTO-RESIST
- LIQUID CRYSTAL MONOMER PURIFICATION

FOOD AREA

- BEER FILTRATION
- FOOD SAFETY TESTING
- PESTICIDE RESIDUE TESTING

SCIENTIFIC ANALYSIS

SEWAGE DISPOSAL

DAILY USE

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