

Flash Chromatography Column Series

Flash columns are filled with premium silica gel via automated mechanical packing, delivering high separation efficiency, fast purification speed and excellent pressure resistance (up to 200 psi) with zero leakage. They cut experimental time and solvent consumption, and are compatible with all mainstream flash liquid chromatography systems.

Cat. No.	Name	Size
CS-E0119	Flash column Silic(40-63μm)	4g × 20 pcs 12g × 20 pcs 20g × 20 pcs
CS-1241537	C18 Flash Column(20-35μm)	40g × 10 pcs 80g × 5 pcs 120g × 5 pcs
CS-1241579	C18 Flash Column(40-60μm)	220g × 1 pcs 330g × 1 pcs

Supporting Consumables for TLC Plates

We supply full supporting accessories for TLC operations, including spot capillary tubes, TLC plate cutters and gas storage balloons.



Spotting Capillaries

Open-ended capillary tubes made of rigid neutral transparent glass with smooth orifices and uniform slim tube bodies with small inner diameter. Widely used for sample spotting on TLC plates in biochemistry, phytochemistry, organic chemistry and general analytical labs.

01

Cat. No.	Name	Size
CS-E0032	Capillary (0.3mm*100mm)	1000 pcs/pkg



TLC Plate Cutter

Used for precise, neat cutting of TLC silica gel plates to boost cutting efficiency and minimize material waste. Separable hard alloy cutter blades are available as spare parts.

02

Cat. No.	Name	Size
CS-E0019	TLC Plate Cutter (280×240×65 mm)	1 pcs/box

Gas Storage Balloons

Suitable for storing air, hydrogen, nitrogen. Manufactured with matte surface treatment and coated with fine powder to prevent adhesion between balloons.

03

Cat. No.	Name	Size
CS-1379725	Balloons, Pack of 10	Pack of 10
CS-1379726	Balloons, Pack of 100	Pack of 100



Flash Chromatography Columns

High resolution and excellent run-to-run reproducibility; high pressure resistance with zero leakage; faster separation & purification to save experimental time and solvent consumption.

04

Professional Manufacturer of

Thin Layer Chromatography Products



- Thin Layer Chromatography (TLC) Analytical Plates
- Thin Layer Chromatography (TLC) Preparative Plates
- Thin Layer Chromatography (TLC) Aluminum Foil Plates
- Column Chromatography Silica Gel Powder
- Flash Chromatography Columns
- Supporting Consumables for TLC Plates

Application Fields of Thin Layer Chromatography

Pharma and Herbal Medicine

R&D / Synthesis labs:

- Stability testing
- Uniformity testing
- Sub-component evaluation

Quality control / Analytical labs:

- In-process control
- Identity testing

Food Industry

Quality Control

- Stability testing
- Drug residue testing
- Food additive testing
- Mycotoxin detection (including aflatoxins)

Chemscene has established a dedicated R&D team for thin layer chromatography silica gel plates, which has independently completed the development of TLC analytical plates, TLC aluminum foil plates and TLC preparative plates. We have introduced advanced production equipment to realize mass production of the three product lines.

Thin Layer Chromatography Plate Product Line

Thin Layer Chromatography (TLC) uses adsorbents fixed on glass, aluminum sheets or other substrates as stationary phases. Samples dissolved in liquid solvents are spotted onto TLC plates for separation. It is a simple, sensitive and rapid analytical method widely adopted for qualitative and quantitative analysis.

01 TLC Analytical Plates



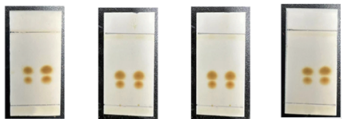
Chemscene glass-backed TLC analytical plates adopt high-quality glass substrates and high-efficiency silica gel adsorbents, featuring excellent separation performance, distinct sample spots and stable repeatability. Both fluorescent (GF254) and non-fluorescent (G) versions are available. Two types of binders are optional: sodium carboxymethyl cellulose (CMC-Na) and polyacrylate polymer.

Product Name	Thickness (mm)	Available Sizes (cm)						
		2×5	2.5×5	2.5×7.5	5×20	10×10	10×20	20×20
TLC Analytical Plate, CMC-Na binder, GF254	0.2 ± 0.25	✓	✓	✓	✓	✓	✓	✓
TLC Analytical Plate, polyacrylate binder, GF254	0.2 ± 0.25	✓	✓	✓	✓	✓	✓	✓
Alkaline TLC Analytical Plate, polyacrylate binder, GF254	0.2 ± 0.25	/	✓	✓	✓	/	✓	✓
TLC Analytical Plate, CMC-Na binder, G plate	0.2 ± 0.25	/	✓	✓	✓	✓	✓	✓



Potassium Permanganate Staining

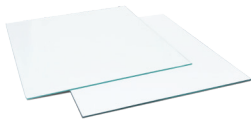
Phosphomolybdic Acid Staining



Iodine Staining

Staining test results of different batches: Potassium permanganate staining, phosphomolybdic acid staining, iodine staining

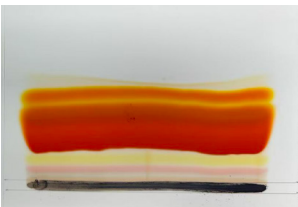
02 TLC Preparative Plates



Chemscene Preparative Layer Chromatography (PLC) plates are designed for separation and purification of mixed samples. Samples are loaded as wide bands; after separation, the adsorbent layer is scraped off and eluted to obtain pure single compounds.

Our PLC plates offer high sample loading capacity, well-defined colored bands and easy elution, enabling simultaneous separation of multiple compounds and providing a fast and convenient solution for sample preparation and purification.

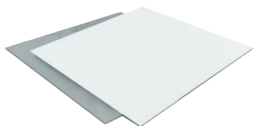
Product Name	Available Sizes (cm)	Thickness (mm)			
		0.5	1	1.5	2
TLC Preparative Plate, CMC-Na binder, GF254	20×20	✓	✓	✓	✓
TLC Preparative Plate, polyacrylate binder, GF254	20×20	✓	/	/	/
TLC Preparative Plate, CMC-Na binder, G plate	20×20	✓	✓	✓	✓
Alkaline TLC Preparative Plate, CMC-Na binder, GF254	20×20	✓	✓	✓	✓



Tricolor separation chromatograms of different production batches

03 TLC Aluminum Foil Plates

Chemscene TLC aluminum foil plates use premium aluminum foil as substrate, featuring lightweight construction, customizable cutting and low waste. Pre-cut small-size plates are offered, with both fluorescent (F254) and non-fluorescent options.



Cat. No.	Product Name	Thickness (mm)	Size (cm)	Packaging
CS-E0008	TLC Aluminum Foil Plate, F254	0.2 ± 0.02	20×20	25 pieces per box
CS-E0081	TLC Aluminum Foil Plate, F254	0.2 ± 0.02	2.5×5	640 pieces per box



Picture showing cuttable TLC aluminum foil plates

Column Chromatography Silica Gel Series (Reagent Grade)

Our column chromatography silica gel is refined from industrial-grade silica via acid washing and water washing to reduce metal impurity content, delivering consistent purification performance. Widely applied in analytical separation and purification for pharmaceuticals, chemical intermediates and electronic materials.



Cat. No.	Product Name	Pack Size
CS-1053370	C18 Reversed Phase Silica Powder, 50 μm, 100 Å	100g、 500g、 1kg
CS-1273175	C18 Reversed Phase Silica Powder, 50 μm, 60 Å	100g、 500g、 1kg
CS-1273176	C18 Reversed phase silica powder,20-45μm,100Å	100g、 500g、 1kg
CS-1273177	C18 Reversed phase silica powder,20-45μm,60Å	100g、 500g、 1kg
CS-1273178	Amino bonded spherical silica gel powder,40-60μm,60Å	100g、 500g、 1kg
CS-1273179	Ethylenediamine-n-propyl bonded silica gel powder,40-60μm,60Å	100g、 500g、 1kg
CS-1244447	Silica gel 60,70-230 mesh	500g、 10kg、 25kg
CS-1244450	Silica gel 60,230-400 mesh	500g、 10kg、 25kg