

VertiPlate™ Specialty Silica

- High Purity Silica Gel for Increased Sensitivity
- Narrow Particle Size Distribution for faster Separations and Improved Resolution
- Specialty silica gels are available as Binder free, Sodium Hydroxide, Silver Nitrate, Ammonium Sulfate, Magnesium Acetate and Potassium Oxalate.
- Adsorbents are available with or without Fluorescent Indicator

VertiPlate™ Specialty Silica TLC plates are used for special applications. **S, Binder Free Silica** contain neither inorganic nor organic binders. They are best for inorganic TLC. Activates plates at 110°C for 30min before use. A few eluents will cause the adsorbent to separate slightly from the plate in the submerged part of the layer.

S-NaOH-G, Silica modified with 0.1N Sodium Hydroxide TLC plates increase basicity of plates to improve separation of organometallics or some acidic compounds.

S-AGNO3, Silica impregnated with 10% Silver Nitrate TLC plates permit increased discrimination of certain compounds, particularly those containing carbon-carbon double bonds. More double or triple bonds (unsaturation) give lower R_f values. The product is light sensitive and should be stored in the dark. Activated plates at 110°C for 60min before use for improved separations.

S-NHSO4, Silica modified with Ammonium Sulfate TLC plates eliminate the need to use messy sulfuric acid for charring. Just evaporate the developing solvent until the plate is completely dry, then heat at 150-200°C for 30-60min to achieve charring.

S-MGA, Silica modified with 7.5% Magnesium Acetate TLC plates decreases the acidity of the layer and allows increased discrimination of phospholipids.

S-KOX, Silica modified with 1% Potassium Oxalate TLC plates acquire a separation characteristic which aids in the discrimination of polyphosphoinositides.

S	Silica gel 60Å
S-NaOH	Silica modified with 0.1N Sodium Hydroxide
S-AGNO3	Silica impregnated with 10% Silver Nitrate
S-NHSO4	Silica modified with Ammonium Sulfate
S-MGA	Silica modified with 7.5% Magnesium Acetate
S-KOX	Silica modified with 1% Potassium Oxalate
G	(Gypsum) Calcium Sulfate Hemihydrate binder
F254	Fluorescent Indicator 254nm
PS	Prescored

Specifications	
Base	Silica gel, 15µm particle size, 60Å pore size
Binder	Binder free Gypsum, Calcium Sulfate Hemihydrate
Indicator	Fluorescent at 254nm
Layer Thickness	250µm
Plate material	Glass
Plate size	20x20cm, 10x20cm, 5x20cm

Ordering Information		
Description	QTY	Part No.
Binder Free Silica		
S, 20x20cm	25	0810-0365
S, 10x20cm	25	0810-0355
S, 5x20cm	25	0810-0335
S, PS, 20x20cm	25	0810-1365
S, F254, 20x20cm	25	0811-0365
S, F254, 10x20cm	25	0811-0355
S, F254, 5x20cm	25	0811-0335
S, F254, PS, 20x20cm	25	0811-1365
0.1N Sodium Hydroxide Modified Silica		
S-NaOH-G, 20x20cm	25	0850-0365
S-NaOH-G, 10x20cm	25	0850-0355
S-NaOH-G, 5x20cm	25	0850-0335
S-NaOH-G, F254, 20x20cm	25	0851-0365
S-NaOH-G, F254, 10x20cm	25	0851-0355
S-NaOH-G, F254, 5x20cm	25	0851-0335
10% Silver Nitrate Impregnated Silica		
S-AGNO3, 20x20cm	25	0860-0365
S-AGNO3, 10x20cm	25	0860-0355
S-AGNO3, 5x20cm	25	0860-0335
S-AGNO3, F254, 20x20cm	25	0861-0365
S-AGNO3, F254, 10x20cm	25	0861-0355
S-AGNO3, F254, 5x20cm	25	0861-0335
Ammonium Sulfate Modified Silica		
S-NHSO4, 20x20cm	25	0890-0365
S-NHSO4, 10x20cm	25	0890-0355
S-NHSO4, 5x20cm	25	0890-0335
S-NHSO4, F254, 20x20cm	25	0891-0365
S-NHSO4, F254, 10x20cm	25	0891-0355
S-NHSO4, F254, 5x20cm	25	0891-0335
7.5% Magnesium Acetate Modified Silica		
S-MGA, 20x20cm	25	0880-0365
S-MGA, 10x20cm	25	0880-0355
S-MGA, 5x20cm	25	0880-0335
S-MGA, F254, 20x20cm	25	0881-0365
S-MGA, F254, 10x20cm	25	0881-0355
S-MGA, F254, 5x20cm	25	0881-0335
1% Potassium Oxalate Modified Silica		
S-KOX, 20x20cm	25	08A0-0365
S-KOX, 10x20cm	25	08A0-0355
S-KOX, 5x20cm	25	08A0-0335
S-KOX, F254, 20x20cm	25	08A1-0365
S-KOX, F254, 10x20cm	25	08A1-0355
S-KOX, F254, 5x20cm	25	08A1-0335