

VertiPlate™ Flexible Backed

VertiPlate™ Plastic & Aluminum Backed TLC

- Flexible and Unbreakable
- Cut Plates to Size Needed
- Less Expensive than Glass
- Available with Polyester or Aluminum backing

It is easy to extract substances from the plastic layer. Simply cut out the sample area and place into suitable solvent. This eliminates the dust of the scraping step and is often important in studies with radioactive materials.

Plastic backed plates can also be used for electrophoresis work. The backing is polyester plastic. Activate sheets at 65-70°C for 30min.

S-GH, Silica plates contain a special inorganic Hard-layer plus gypsum binder that stabilizes the layer to make it more abrasion resistant. They provide improved handling. They are also 100% water resistant and are compatible with aqueous developing solvent. They are recommended for all applications including those where visualization occurs through strong charring procedures or in any case in which reagent interaction with an organic binder occurs.

ALN-G, Alumina TLC plates are neutral aluminium oxide containing calcium sulfate hemihydrate as a binder. These TLC plates are recommended for terpenes, alkaloids, steroids, aliphatic and aromatic compounds. Activated plates at 120°C for 10min before use for improved separations.

MC, Microcrystalline Cellulose plates are coated with Microcrystalline Cellulose (Avicel®). The adsorbent consists of regenerated alpha cellulose particles of nearly spherical shape and 50µm particle size. Layer are binder free and abrasion resistant. Compounds separated on this cellulose tend to form more compact spots than on fibrous cellulose layers. Recommended for carboxylic acids, lower alcohols, urea and purine derivatives.

MC-PEI, Cellulose with polyethyleneimine plates are cellulose anion-exchanger. Recommended for analysis of nucleic acids, and of mutagenic substances with the 32P postlabelling procedure.

S-C18-G plates are C18 bonded-silica containing Gypsum or Calcium Sulfate hemihydrate as a binder. They are used to separated both polar and non-polar compounds by adjusting the solvent system.



Specifications	
Adsorbent	Silica gel, 10µm, 60Å pore size with Inorganic Hard-layer plus Gypsum binder Alumina 10µm, 60Å pore size with Gypsum, Calcium Sulfate Hemihydrate binder Microcrystalline Cellulose
Indicator	Fluorescent at 254nm
Layer Thickness	100, 150, 200µm
Plate material	Polyester Aluminum
Plate size	20x20cm

Comparison of flexible backings to glass			
Physical Property	Glass	Plastic	Aluminum
Thickness	1.5mm	0.2mm	0.15mm
Weight	high	low	low
Torsional strength	ideal	low	high
Temperature stability	high	185°C	high
Susceptible to breakage	yes	no	no
Can be cut with scissors	no	yes	yes
Solvents resistance	high	high	high
Mineral acids resistance	high	high	high
Conc. ammonia resistance	high	high	low
Binder stability in water	depends on phase use	very suitable	limited suitability

Ordering Information		
Description	QTY	Part No.
VertiPlate™ Polyester Backed		
S-GH, 200µm, 20x20cm	25	0832-0265
S-GH, F254, 200µm, 20x20cm	25	0833-0265
ALN-G, 200µm, 20x20cm	25	08E2-0265
ALN-G, F254, 200µm, 20x20cm	25	08E3-0265
MC, 100µm, 20x20cm	25	08F2-0065
MC, F254, 100µm, 20x20cm	25	08F3-0065
MC-PEI, 100µm, 20x20cm	25	08G2-0065
MC-PEI, F254, 100µm, 20x20cm	25	08G3-0065
NYLON, 100µm, 20x20cm	25	08J2-0065
NYLON, F254, 100µm, 20x20cm	25	08J3-0065
VertiPlate™ Aluminum Backed		
S-GH, 200µm, 20x20cm	25	0834-0265
S-GH, F254, 200µm, 20x20cm	25	0835-0265
ALN-G, 200µm, 20x20cm	25	08E4-0265
ALN-G, F254, 200µm, 20x20cm	25	08E5-0265
MC, 150µm, 20x20cm	25	08F4-0165
MC, F254, 150µm, 20x20cm	25	08F5-0165
S-C18-G, F254, 150µm, 20x20cm	25	0875-0165

S	Binder Free Silica
G	Soft-layer, (Gypsum) Calcium Sulfate Hemihydrate binder
GH	Inorganic Hard-layer plus Gypsum binder
C18	Octadecyl Bonded-silica gel
AL N	Alumina, neutral, 60Å pore size
MC	Microcrystalline Cellulose
NYLON	Aminopolycaprolactame, NYLON 6
MC-PEI	Cellulose with polyethyleneimine
F254	Fluorescent Indicator UV254

TLC