



# TOP SELLING THIN LAYER CHROMATOGRAPHY PLATES

## SILICA GEL GF

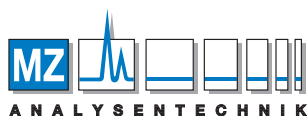
Easy to scrape soft surface

## SILICA GEL GHLF

Easy to char, water tolerant surface

## SILICA GEL HLF

Easy to handle hard surface



#### AUTHORIZED DISTRIBUTOR

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## SILICA GEL G & GF SOFT LAYER UNIPLATES (INORGANIC BINDER)

These plates are the most widely used silica gel TLC plates. No organic substances are added to these products, thus making them compatible with sulfuric acid charring visualization.

The "G" stands for Gypsum and indicates that calcium sulfate hemihydrate ( $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$ ), a refined form of gypsum, has been included in the adsorbent formulation. Gypsum functions as a binder, improving the cohesion of the adsorbent particles and increasing the adhesion of the layer to the glass substrate.

These plates are commonly scraped from the glass backing to isolate separated components for other analytical procedures. They are compatible with all organic solvents, however, they are not recommended for use in systems containing greater than 20% water because of the solubility of the gypsum binder in aqueous solutions (For water tolerance see the GHL & GHLF series of plates).

| Cat #  | Description   | Thickness | Plate Size | UV 254 | Plates/Box |
|--------|---------------|-----------|------------|--------|------------|
| P01011 | Silica Gel G  | 250um     | 20x20cm    |        | 25         |
| P02011 | Silica Gel GF | 250um     | 20x20cm    | Yes    | 25         |
| P02012 | Silica Gel GF | 500um     | 20x20cm    | Yes    | 25         |
| P02013 | Silica Gel GF | 1000um    | 20x20cm    | Yes    | 25         |
| P02015 | Silica Gel GF | 2000um    | 20x20cm    | Yes    | 25         |

## SILICA GEL GHL & GHLF HARD LAYER UNIPLATES (INORGANIC BINDER)

These plates are 100% H<sub>2</sub>O resistant and are compatible with aqueous developing solvents. They are less rugged than the plates with organic binder (HL & HLF) but still provide improved handling and sample application compared to Silica Gel G & GF UNIPLATES and are tough enough to write on with a soft pencil, if required.

These hard layer UNIPLATES with inorganic binder 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.

| Cat #  | Description     | Thickness | Plate Size | Score Size | UV 254 | Plates/Box |
|--------|-----------------|-----------|------------|------------|--------|------------|
| P11011 | Silica Gel GHL  | 250um     | 20x20cm    |            |        | 25         |
| P11521 | Silica Gel GHL  | 250um     | 10x20cm    | 2.5x10cm   |        | 25         |
| P21011 | Silica Gel GHLF | 250um     | 20x20cm    |            | Yes    | 25         |
| P21521 | Silica Gel GHLF | 250um     | 20x20cm    | 2.5x10cm   | Yes    | 25         |

## SILICA GEL HL & HLF HARD LAYER UNIPLATES (ORGANIC BINDER)

These are the most rugged silica gel plates available. They not only ease handling and sample application, but also permit the use of up to 80% water in the developing solvent without loss of adherence of the adsorbent layer to the glass plate. Organic binder plates are recommended for all TLC applications except those that use vigorous charring for visualization. Virtually all other visualization methods are free from interference from the organic binder.

These plates use high performance silica gel with small average diameter and narrow particle size distribution resulting in separations 25% to 30% faster than with most other TLC plates. Separated spots are more compact and better resolved, which allows visualization at lower sample levels. The enhanced abrasion resistance means easier handling and sample application.

| Cat #  | Description    | Thickness | Plate Size | Score Size | UV 254 | Plates/Box |
|--------|----------------|-----------|------------|------------|--------|------------|
| P46011 | Silica Gel HL  | 250um     | 20x20cm    |            |        | 25         |
| P46521 | Silica Gel HL  | 250um     | 10x20cm    | 2.5x10cm   |        | 25         |
| P47011 | Silica Gel HLF | 250um     | 20x20cm    |            | Yes    | 25         |
| P47521 | Silica Gel HLF | 250um     | 20x20cm    | 2.5x10cm   | Yes    | 25         |