

## TLC Plates, Silica Gel 60, Unmodified and Chemically Modified Layers, Aluminium



### TLC plates, unmodified silica gel 60

This range of plates uses Merck silica gel 60 with a unique polymeric binder that results in a uniform and hard surface that will not easily crack or blister. The smooth and extremely dense plate coating ensures narrow bands and maximum separation efficiency with the lowest background noise.

- Layer thickness 200 µm, particle size of 10-12 µm
- Flexible aluminium plates that can easily be cut to match individual separation requirements
- Two inorganic fluorescent indicators for UV detection of colourless substances
- Samples which absorb shortwave UV at 254 nm are detected due to fluorescence quenching

### TLC plates, concentrating zone

These plates are based on different adsorption properties of two silica adsorbents: an inert large pore concentrating adsorbent where the samples are applied and a selective separation layer for the separation. Independent of the shape, size or position of the spots the sample always concentrates within seconds as a narrow band at the interface of the two adsorbents, where the separation begins.

- Quick and easy sample application
- Includes a purification and concentration step
- Better resolution due to sharp bands

### TLC plates, modified silica gel 60

Modified silica layers (layer thickness 200 µm) are well suited for most problem separations that cannot be adequately resolved using unmodified silica.

- Results less dependent on atmospheric humidity
- Allows use of aqueous solvent systems
- RP-modified silica provides a ready correlation with HPLC
- No catalytic activity for unstable substances (oxidative degradation)

Description	Format (mm)	Pk	Cat. No.
TLC silica gel 60, unmodified	200x200	25	1.05553.0001
	50x100	50	1.16835.0001
TLC silica gel 60 W*, unmodified	200x200	25	1.16487.0001
	50x75	20	1.05549.0001
	200x200	25	1.05554.0001
TLC silica gel 60 F254**, unmodified	100x200	25	1.05570.0001
	50x100	50	1.16834.0001
	5000x200	1 Roll	1.05562.0001
	200x200	25	1.16484.0001
TLC silica gel 60 W* F254s***, unmodified	200x200	25	1.05582.0001
TLC silica gel 60 with concentrating zone 25x200 mm	200x200	25	1.05583.0001
TLC silica gel 60 F254** with concentrating zone 25x200 mm	200x200	25	1.05583.0001
TLC silica gel 60 RP-18 F254s***, modified	200x200	20	1.05559.0001
	50x75	20	1.05560.0001
TLC silica gel 60 NH2 F254**, modified	200x200	20	1.05533.0001

\* W: wettable with water

\*\* F254: fluorescent indicator

\*\*\* F254s: acid stable fluorescent indicator

## TLC Plates, Silica Gel 60, Unmodified, Plastic



TLC plates, that feature the smooth and extremely dense plate coating, ensure narrow bands and maximum separation efficiency with the lowest background noise. Flexible plastic plates can easily be cut to match individual separation requirements.

- Layer thickness 200 µm, particle size of 10-12 µm
- Inorganic fluorescent indicator for UV detection of colourless substances

Description	Format (mm)	Pk	Cat. No.
TLC silica gel 60 F254**, unmodified	40x80	50	1.05750.0001
TLC silica gel 60, unmodified	200x200	25	1.05748.0001
	200x200	25	1.05735.0001
TLC silica gel 60 F254**, unmodified	5000x200	1	1.05749.0001

\*\* F254: fluorescent indicator