

SepaFlash™ Preparative TLC Plates, Glass-Backing, Soft Layer Silica, 20 x 20 cm, 1,000 µm, F254, 25/box

Part Number: TL-BS9103

General Description

Recognized as the original “Classic” TLC plate, this plate features a gypsum (calcium sulfate) binder, creating a softer layer that allows for easy scraping and spot or band removal for further analysis. It is the preferred choice for preparative applications, particularly when using thicker coatings to isolate larger quantities of material. The inorganic binder ensures compatibility with aggressive visualization techniques, such as sulfuric acid charring. However, due to the slight solubility of calcium sulfate in water, its water tolerance is limited, making it unsuitable for dipping procedures but fully applicable with spray techniques.

<u>General Information</u>	
Adsorbent:	Bare silica
Adsorbent Particle Size:	8 - 10 µm average
Adsorbent Pore Size:	60 Å
Backing:	Glass
Binder:	Inorganic binder (calcium sulfate a.k.a. gypsum with proprietary hardening agent)
Indicator:	Yes (UV 254)
Layer Hardness:	Soft layer, 20 – 40
Layer Thickness:	1,000 µm
Plate Size:	20 x 20 cm
Qty / Box:	25 plates

Visualization Techniques

Compatible with virtually all visualization reagents, including sulfuric acid charring. Reagents can be applied using dipping or spraying methods for enhanced flexibility and ease of use.

Acceptable Solvents

Compatible with all standard chromatography solvents, allowing up to 20 % water content.

Storage Conditions

Store in a dry place at room temperature, away from direct sunlight and moisture.

<u>Chromatographic Testing Guidelines and Specifications</u>	
Layer Thickness	700 – 1,100 µm
Hardness	80 – None (strokes)
Migration Speed Test	
<u>Conditions</u>	<u>Minutes</u>
10 cm in toluene	11 – 22
Color Test - Separation 30-04	
<u>Components</u>	<u>Rf Values</u>
Fat Red 7B	0.60 – 0.75
Sudan Green	0.30 – 0.45
Sudan II, Comp. B	0.20 – 0.25
Sudan Blue	0.10 – 0.25