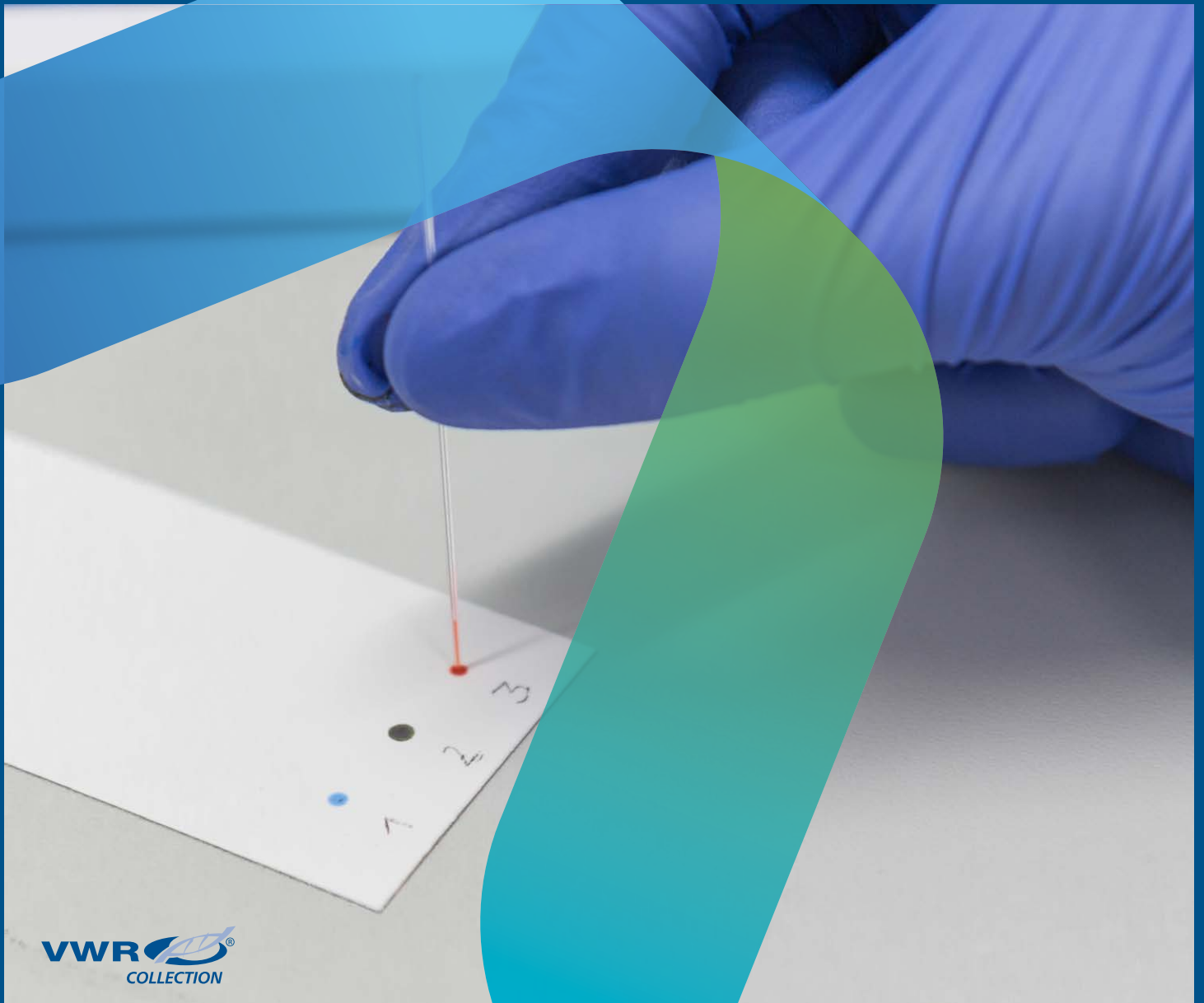


# VWR<sup>®</sup> TLC/HPTLC plates

01. HIGH QUALITY PLATES

02. TWO DIFFERENT GRADES

03. WIDE RANGE OF SIZES  
AND BACKING TYPES



# VWR® TLC/HPTLC plates

High quality plates are available in two different grades, as well as a wide range of sizes and backing types.

## THE ADVANTAGES OF TLC & HPTLC

- Fast, cost efficient separation method, which can be used with minimal sample preparation
- High sample throughput, with low cost and time expenditure
  - multi-sample analysis is possible
- Cost effective and fast method development for potential flash and HPLC methods
- Allows multiple detection (UV/Vis, fluorescence, mass spectrometry and derivatisation)

## APPLICATION AREAS

- Pharma and herbal medicinal products (F&E / QC)
- Food (QC – e.g. drug residues)
- Environmental labs (e.g. residue analysis)
- Clinical labs (e.g. drug monitoring)
- Forensic (e.g. medicines, drugs and narcotic abuse)
- Universities (e.g. organics, pharmaceutical chemistry and synthesis labs)
- Laboratories who are doing flash or preparative chromatography
- Method development laboratories

## RANGE OF DIFFERENT TYPES AVAILABLE:

### Aluminium plates

- Lighter plates
- Possible to cut them into different formats
- No silica disruption
- NOT stable against acid

### Glass plates

- Stable against acid
- More expensive than aluminium plates

### Silica

- Standard silica coated plates with a soft silica layer

### Silica HP

- Harder silica layer, different selectivity (separation and running performance)
- Can be easily labelled

### Binder system

- High polymeric binder, stable against most organic solvents and aggressive detection reagents

## QUICK GUIDE TO PART NUMBERS (specifications in full follow on the next page)

TLC PLATES	With F254 indicator					No indicator	
	200x200 mm	100x200 mm	50x200 mm	50x100 mm	50x75 mm	200x200 mm	100 x 200 mm
VWR TLC glass plates, silica HP	551-0007	551-0015		551-0012		551-0016	551-0025
VWR glass plates	551-0006	551-0014	551-0031	551-0013		551-0017	551-0024
VWR TLC aluminium plate	551-0005	551-0032		551-0018	551-0020	551-0021	

HPTLC PLATES	With F254 indicator				No indicator
	200x200 mm	100x200 mm	100x100 mm	50x50 mm	100x200 mm
VWR HPTLC glass plates, silica HP		551-0009	551-0028	551-0027	551-0023
VWR glass plates silica		551-0008	551-0019	551-0026	551-0022
Modified HPTLC glass plate	551-0029				
Modified HPTLC aluminium plate	551-0030				

**DID YOU KNOW?**

**HPTLC = TLC**, but with smaller particle size, which results in better separation performance.

Description	Benefits	Specifications
<b>TLC glass plates, silica HP with or without indicator</b>	<ul style="list-style-type: none"> <li>- Specific dyeability and abrasion resistant based on an special binder system</li> <li>- Excellent separation efficiencies due to good particle size distribution</li> <li>- Wettability for exact colourisation results, even with 100% aqueous detection reagents</li> <li>- Available with or without fluorescent indicator</li> </ul>	<ul style="list-style-type: none"> <li>- Silica 60</li> <li>- Specific surface (BET); ~ 500 m<sup>2</sup>/g</li> <li>- Specific pore volume: 0,75 ml/g</li> <li>- Particle size: 5 to 17 µm</li> <li>- Layer thickness: 250 µm</li> </ul>
<b>TLC glass plates, silica with or without indicator</b>	<ul style="list-style-type: none"> <li>- Easy and quick sample applications</li> <li>- High sample throughput in short time</li> <li>- Pilot product for HPLC or flash chromatography</li> <li>- Suitable for screening tests</li> </ul>	<ul style="list-style-type: none"> <li>- Silica 60</li> <li>- Particle size: 5 to 17 µm</li> <li>- Layer thickness: 250 µm</li> <li>- Indicator: Manganese-activated zinc silica with green fluorescence for short wave UV (254 nm)</li> <li>- Binder: Stable in almost all organic solvents</li> </ul>
<b>TLC aluminium plates, silica with or without Indicator</b>	<ul style="list-style-type: none"> <li>- Easy to cut different size</li> <li>- Easy and quick sample applications</li> <li>- High sample throughput in short time</li> <li>- Pilot product for HPLC or flash chromatography</li> <li>- Suitable for screening tests</li> </ul>	<ul style="list-style-type: none"> <li>- Silica 60</li> <li>- Particle size: 5 to 17 µm</li> <li>- Layer thickness: 200 µm</li> <li>- Indicator: Manganese activated zinc silica with green fluorescence for short wave UV (254 nm)</li> <li>- Binder: stable in almost all organic solvents</li> </ul>
<b>TLC glass HPTLC plates, silica HP with or without indicator</b>	<ul style="list-style-type: none"> <li>- Specific dyeability and abrasion resistant based on an optimized binder system</li> <li>- Excellent separation efficiencies due to good particle size distribution</li> <li>- Wettability for exact colourisation results, even with 100% aqueous detection reagents</li> <li>- Available with or without fluorescent indicator</li> </ul>	<ul style="list-style-type: none"> <li>- Silica 60</li> <li>- Specific surface (BET); ~ 500 m<sup>2</sup>/g</li> <li>- Specific pore volume: 0,75 ml/g</li> <li>- Particle size: 2 to 10 µm</li> <li>- Layer thickness: 200 µm</li> </ul>
<b>HPTLC glass plates, silica with or without indicator</b>	<ul style="list-style-type: none"> <li>- Short migration distance</li> <li>- Increased detection sensitivity</li> <li>- Lower sample amount needed</li> </ul>	<ul style="list-style-type: none"> <li>- Silica 60</li> <li>- Particle size: 2 to 10 µm</li> <li>- Layer thickness: 200 µm</li> <li>- Indicator: Manganese-activated zinc silica with green fluorescence for short wave UV (254 nm)</li> <li>- Binder: Stable in almost all organic solvents</li> </ul>
<b>Modified HPTLC glass/aluminium plates with indicator</b>	<ul style="list-style-type: none"> <li>- Modified silica layers are, depending on the modification, suitable for polar to unipolar eluents or eluent mixtures</li> <li>- RP-18W is a special modified sorbent which is water wettable</li> </ul>	<ul style="list-style-type: none"> <li>- Silica 60 modified with RP-18 W</li> <li>- Particle size: 2 to 10 µm</li> <li>- Layer thickness: 250 µm</li> <li>- Indicator: Acid-resistant with a pale blue fluorescence for short wavelength UV (254 nm)</li> <li>- Binder: Stable in almost all organic solvents</li> <li>- Wettable with water</li> </ul>

# Setting science in motion to create a better world



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