

# Chromatography Paper

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### 3MM Chr

Though widely used as a blotting paper, 3MM Chr is used in both electrophoresis and for general chemistry.

A medium thickness paper (0.34 mm) used extensively for general chromatography and electrophoresis. Flow rate is 130 mm/30 min.

### 17 Chr

A thick (0.92 mm) and highly absorbent paper with a very high flow rate of 190 mm/30 min. Suitable for the heaviest loadings and ideal for preparative paper chromatography and electrophoresis.

### 20 Chr

Thickness 0.17 mm. Flow rate 85 mm/30 min. For maximum resolution, this grade is supreme, giving the greatest possible separation of closely related compounds. Smooth surface. Recommended for separation of samples of unknown composition, with outstanding resolution at low loadings.

### 31ET Chr

Thickness 0.50 mm. Flow rate 225 mm/30 min. Extremely fast. Flow rate is the highest of all chromatography papers in the Whatman range. Thick paper with fairly soft surface. Principal application is in electrophoresis of large molecules.

### 1 Chr

The world standard chromatography paper. A smooth surface, 0.18 mm thick with a linear flow rate (water) of 130 mm/30 min. Good resolution for general analytical separations.

### 2 Chr

Thickness 0.18 mm. Flow rate 115 mm/30 min. Slower than 1 Chr for higher resolution applications. Smooth surface. Particularly recommended for optical or radiometric scanning.

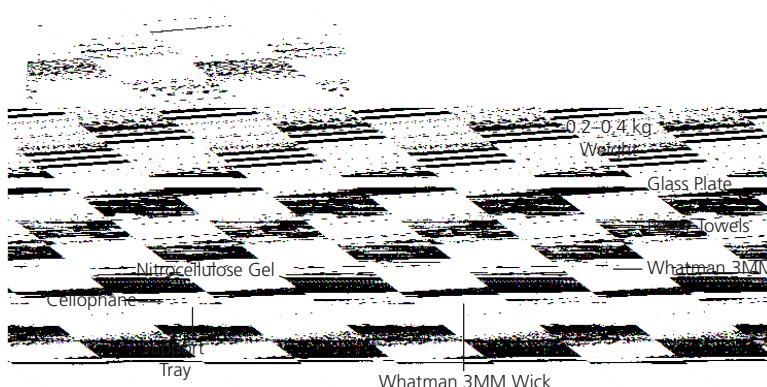
### 3 Chr

A medium thickness paper (0.36 mm) with a flow rate of 130 mm/30 min. for general applications with medium/heavy solute loadings. Frequently used for separation of inorganic compounds and for electrophoresis.

### Features and Benefits

- Pure cellulose produced entirely from the highest quality cotton linters with no additives of any kind—ensures that no contamination will occur during the transfer steps
- Manufactured and tested specifically for chromatographic techniques—this ensures the wicking capability and uniformity of capillary action that is important in obtaining clean and even transfers during blotting
- Whatman 3MM Chr is considered the industry standard for blotting procedures
- Convenient sizes available in sheets precisely cut to the most popular gel and transfer membrane sizes—allows “out-of-the-box” usage and eliminates sheet-to-sheet variations

3MM Chr Paper  
Typical Blotting Apparatus



Whatman®

Visit: [www.whatman.com](http://www.whatman.com)

## Chromatography Paper continued

### Ordering Information

3MM Chr Precut Sheets		
Catalog Number	Size (cm)	Quantity/Pack
3030-6185	11 x 14	100
3030-6132	12 x 14	100
3030-153	15 x 17.5	100
3030-6188	15 x 20	100
3030-221	18 x 34	100
3030-861	20 x 20	100
3030-6461	26 x 41	100
3030-347	35 x 43	100
3030-392	35 x 45	100
3030-335	31.5 x 35.5	100

Pure Cellulose Grade Rolls				Length	Width
1 Chr	3MM Chr	4 Chr	54 SFC		
3001-604	—	—	—	100 meters	1.0 cm
3001-614	3030-614	3004-614	—	100 meters	2.0 cm
3001-640	—	—	—	100 meters	3.0 cm
3001-652	—	—	—	100 meters	4.0 cm
3001-653	—	—	—	100 meters	5.0 cm
—	3030-662	—	—	100 meters	7.5 cm
3001-672	3030-672	—	—	100 meters	10.0 cm
—	3030-675	—	—	100 meters	12.5 cm
3001-681	3030-681	—	—	100 meters	15.0 cm
—	3030-690	—	—	100 meters	19.0 cm
—	3030-700	—	—	100 meters	23.0 cm
—	3030-704	—	—	100 meters	27.0 cm
3001-633	—	—	—	100 yards	1.0"
3001-651	—	3004-651	3454-651	100 yards	1.5"

Pure Cellulose Grade Sheets							
1 Chr	2 Chr	3 Chr	4 Chr	17 Chr	20 Chr	31ET Chr	Size (cm)
3001-917	3002-917	3003-917	3004-917	3017-915*	3020-917	3031-915*	46 x 57
3001-861	—	—	—	—	—	—	20 x 20
3001-931	—	—	—	—	—	—	58 x 68
3001-845	—	—	—	—	—	—	10 x 30
3001-878	—	—	—	—	—	—	25 x 25

\*25/box

Pure Cellulose Grade Patterns and Strips		
Catalog Number	Grade	Quantity/Pack
CRL-Sheets 11 x 21.3 cm, 12 strips, 15 mm		
3001-964	1 Chr	100

### Ion Exchange Paper



#### DE81

A thin (0.20 mm) DEAE cellulose paper—a weakly basic anion exchanger with diethylaminoethyl functional groups. The ion exchange capacity is 1.7  $\mu\text{eq}/\text{cm}^2$  and flow rate is 95 mm/30 min. For use with reverse transcriptase assays and DNA polymerase.

#### P81

A thin (0.23 mm) cellulose phosphate paper. Strong cation exchanger of high capacity. Ion exchange capacity is 18.0  $\mu\text{eq}/\text{cm}^2$  and the flow rate is 125 mm/30 min. For use with protein kinase assay with peptide substrates.

#### Features and Benefits

- Simultaneous development of multiple samples on the same sheet under identical conditions
- Sequential development of the same samples with different solvents and/or different concentrations of the same solvent
- Suitability for two-dimensional chromatography (change in direction of the solvent front) with possible improved resolution

#### SG81

A unique paper (0.27 mm thick) combining cellulose and large pore silica gel. Suitable for separations in which both partition and adsorption are important, including the separation of phospholipids, steroids, phenols and dyes. Flow rate is 110 mm/30 min.

### Ordering Information

Catalog Number	Description	Diameter (cm)	Quantity/Box
<b>Ion Exchange Cellulose Paper Circles</b>			
3658-023	DE81 DEAE cellulose	2.3	400
3658-323	DE81 DEAE cellulose	2.3	100
3658-324	DE81 DEAE cellulose	2.4	100
3658-325	DE81 DEAE cellulose	2.5	100
3698-321	P81 cellulose phosphate	2.1	100
3698-325	P81 cellulose phosphate	2.5	100
<b>Ion Exchange Cellulose Paper Sheets</b>			
3658-915	DE81 DEAE cellulose	46 x 57	25
3698-915	P81 cellulose phosphate	46 x 57	25
3668-915	SG81 silica gel loaded paper	46 x 57	25