



MACHEREY-NAGEL

"Made in Germany" since 1911



Filtration Products
Chromatography
Rapid Tests
Water Analysis

Price List 2022-23

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We are pleased that you are interested in our range of high quality filtration products. In a new design, we present our filter papers, filter membranes and extraction thimbles for a broad range of applications as well as special products made from filter paper. Our catalogue "Filtration" also includes pH indicator papers, as well as test papers for qualitative and semi-quantitative analysis. This will give you an overview of the extensive range of applications for these products. Perhaps you may find a convenient solution to one of your analytical tasks. For more than 9 decades, since 1911, MACHEREY-NAGEL produces high quality filter papers, which represent the roots of the company. Even today, only the best raw materials are used in production, following long-proven recipes. This guarantees our continuous high quality. Since 1996, MN has established a quality management system in accordance with ISO 9001. We hope that you enjoy our catalogue and that our products will help to make your lab-life easier.

Standard filter papers for qualitative analysis

Qualitative filter papers are manufactured from the same raw materials as the ashless grades and are particularly suited for general laboratory filtrations. The average ash content is about 0.1%, the amount of α cellulose is about 95%.

Technical data

Grade	Properties	Particle retention(μ m)	Thickness	Filtration speed	Basis weight
MN 617 we \equiv No. 4	extra soft, fast filtration, smooth	15-22	0.22 mm	5 s	85 g/m ²
MN 617	soft, fast filtration, smooth	8-12	0.2 mm	9 s	85 g/m ²
MN 615A \equiv No. 1	medium speed, for general application	10-12	0.2 mm	20 s	80 g/m ²
MN 615	medium fast filtration, smooth	4-12	0.16 mm	22 s	70 g/m ²
MN 616 \equiv No. 2	medium fast filtration, smooth	5-10	0.2 mm	27 s	85 g/m ²
MN 618 \equiv No. 3	medium fast filtration, smooth	6-8	0.32 mm	22 s	140 g/m ²
MN 616 md	medium to slow filtration, smooth	5-7	0.2 mm	55 s	85 g/m ²
MN 619	dense, slow filtration, smooth	3-5	0.17 mm	100 s	75 g/m ²
MN 619 eh \equiv No. 6	dense, slow filtration, smooth	3	0.17 mm	140 s	85 g/m ²
MN 619 de \equiv No. 5	extra dense, very slow filtration, smooth	2.5	0.2 mm	195 s	100 g/m ²

MN615A = No-1



Medium fast filtration, for general laboratory use Basis weight 85 g/m² Thickness 0.2 mm Filtration speed 20 s Surface smooth Average retention capacity 4–12 μ m

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
400615A00425	42.5 MM CIRCLE.	100	48232000	18%	POR
400615A005	55 MM CIRCLE.	100	48232000	18%	730
400615A007	70 MM CIRCLE.	100	48232000	18%	760
400615A009	90 MM CIRCLE.	100	48232000	18%	790
400615A011	110 MM CIRCLE.	100	48232000	18%	890
400615A012	125 MM CIRCLE.	100	48232000	18%	990
400615A015	150 MM CIRCLE.	100	48232000	18%	1190

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
400615A018	185 MM CIRCLE.	100	48232000	18%	1690
400615A024	240 MM CIRCLE.	100	48237090	18%	3290
400615A027	270MM CIRCLE.	100	48237090	18%	POR
400615A032	320MM CIRCLE.	100	48237090	18%	5690
100615A004.1	460 x 570MM Sheets	100	48054000	12%	8090
100615A010.1	580 x 580MM Sheets	100	48054000	12%	10890

MN616 = No-2

MN 616, Qualitative, Medium fast (27 s), Smooth MN 616 is a filter paper with medium retention and flow rate. This filter paper covers a wide range of filtration applications

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
432005	55 MM CIRCLE.	100	48232000	18%	1090
432007	70 MM CIRCLE.	100	48232000	18%	1190
432009	90 MM CIRCLE.	100	48232000	18%	1390
432011	110 MM CIRCLE.	100	48232000	18%	1690
432012	125 MM CIRCLE.	100	48232000	18%	2090
432015	150 MM CIRCLE.	100	48232000	18%	2590
132002.1	460 x 570MM Sheets	100	48054000	12%	20190

MN618 = No-3

MN 618 is a thick filter paper with medium flow rates and finer retention. It's higher loading capacity than thinner papers makes it especially useful for the filtration of large quantities of liquids.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
436009	90 MM CIRCLE.	100	48232000	18%	1690
436011	110 MM CIRCLE.	100	48232000	18%	2390
436012	125 MM CIRCLE.	100	48232000	18%	3090
436032	320 MM CIRCLE.	100	48232000	18%	15390
136040.1	460 x 570MM Sheets	100	48054000	12%	20790



MN617WE = No-4

MN 617 we is the fastest qualitative filter paper with highest flow rate. This very soft filter paper is used for example in routine clean up of large volumes of sample with coarse particles.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4350047	47 MM CIRCLE.	100	48232000	18%	POR
435007	70 MM CIRCLE.	100	48232000	18%	1090
435009	90 MM CIRCLE.	100	48232000	18%	1390
435011	110 MM CIRCLE.	100	48232000	18%	1690
435012	125 MM CIRCLE.	100	48232000	18%	2090
435015	150 MM CIRCLE.	100	48232000	18%	2590
435018	180 MM CIRCLE.	100	48232000	18%	3590
435040	400 MM CIRCLE.	100	48054000	12%	15490
135001	460 x 570MM Sheets	100	48054000	12%	POR

MN619DE = No-5

MN 619 de is an extra dense filter paper for excellent clarification of cloudy suspensions. Maximum retention capacity in qualitative range for fine particle filtration e.g. in chemical analysis.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
439009	90 MM CIRCLE.	100	48232000	18%	1390
439011	110 MM CIRCLE.	100	48232000	18%	1690
439012	125 MM CIRCLE.	100	48232000	18%	2090

MN619EH - No- 6,

MN 619 eh is slightly more dense than MN 619 with high particle retention and slow flow rate.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
438005	55 MM CIRCLE.	100	48232000	18%	1090
438009	90 MM CIRCLE.	100	48232000	18%	1390



Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
438011	110 MM CIRCLE.	100	48232000	18%	1690
438012	125 MM CIRCLE.	100	48232000	18%	2090

MN616md

MN 616 md is slightly more retentive than MN 615 with a corresponding increase in filtration time.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
433005	55 MM CIRCLE.	100	48232000	18%	1090
433011	110 MM CIRCLE.	100	48232000	18%	1790
433012	125 MM CIRCLE.	100	48232000	18%	2090
133010A	580 x 580MM Sheets	100	48054000	12%	26290

MN615 1/4

Folded filter papers, MN 615, Qualitative, Medium fast (22 s), Smooth, is the most widely used general purpose filter paper with medium retention and flow rate. This filter paper covers a wide range of laboratory applications and is frequently used for clarifying liquids.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
531018	185 MM CIRCLE.	100	48232000	18%	4190
531024	240 MM CIRCLE.	100	48232000	18%	6190
531025	250 MM CIRCLE.	100	48232000	18%	POR

MN615FF 1/4

MN 615 ff is a medium fast, fat-free filter paper. This paper is particularly suited for the analysis of fats. A special treatment with organic solvents guarantees that these filters are practically free of fats and resins (ether soluble residue < 0.1 mg for a 27 cm filter circle).

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
591005	55 MM CIRCLE.	100	48232000	18%	8990
591012	125 MM CIRCLE.	100	48232000	18%	8990
591015	150 MM CIRCLE.	100	48232000	18%	8990



MN616MD 1/4 = No-2V

MN 616 md is slightly more retentive than MN 615 with a corresponding increase in filtration time.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
533012	125 MM CIRCLE.	100	48232000	18%	4290
533018	185 MM CIRCLE.	100	48232000	18%	5290
533024	240 MM CIRCLE.	100	48232000	18%	7890
533032	320 MM CIRCLE.	100	48232000	18%	11990

Qualitative hardened filter papers - Wet-strengthened

Filter papers for qualitative analysis

Wet-strengthened filter papers

Hardened analytical filter papers are manufactured from refined pulp and linters and feature a content of α -cellulose of more than 95%. The smooth surface of these papers allows fibre-free filtration. They feature a high wet strength and can also be used in the filtration of strongly alkaline or strongly acidic solutions. Due to their high mechanical strength in wet condition they are particularly suited for applications, where the residue is removed from the filter e.g. with a spatula or a jet of water.



Technical data

Grade	Properties	Thickness	Filtration speed	Basis weight
MN 1670	wet-strengthened, fast filtration, smooth	0.13 mm	9 s	85 g/m ²
MN 1672	wet-strengthened, medium fast filtration, smooth	0.13 mm	35 s	85 g/m ²
MN 1674	wet-strengthened, slow filtration, smooth	0.13 mm	110 s	85 g/m ²

MN1674 = No-50

MN 1674 is a wet-strengthened dense filter paper with very high particle retention and slow flow rate. The smooth surface allows fiber-free filtration, even for highly acidic and basic media.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
474011	110 MM CIRCLE.	100	48232000	18%	2590
474012	125 MM CIRCLE.	100	48232000	18%	3290
474015	150 MM CIRCLE.	100	48232000	18%	4290

MN1672 = No-52

MN 1672 is a wet-strengthened general purpose filter paper with medium retention and flow rate. The smooth surface allows fiber-free filtration, even for highly acidic and basic media.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
472012	125 MM CIRCLE.	100	48232000	18%	3290

MN1670 = No-54

MN 1670 is a wet-strengthened, very fast filter paper with excellent retention of coarse particles and gelatinous precipitates. The smooth surface allows fiber-free filtration, even for highly acidic and basic media

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
470012	125 MM CIRCLE.	100	48232000	18%	3290
470015	150 MM CIRCLE.	100	48232000	18%	4290



Ashless filter papers - For quantitative analysis

Technical data

Grade	Color code	Properties	Thickness	Filtration speed	Basis weight
MN 640 we		very fast filtration, smooth	0.22 mm	5 s	85 g/m ²
MN 640 w ≡ No. 41	grey label ≡ black ribbon	fast filtration, smooth	0.2 mm	9 s	85 g/m ²
MN 640 m ≡ No. 43	white label ≡ white ribbon	medium fast filtration, smooth	0.2 mm	27 s	85 g/m ²
MN 640 md ≡ No. 40	yellow label ≡ red ribbon	medium to slow filtration, smooth	0.2 mm	55 s	85 g/m ²
MN 640 dd ≡ No. 44	blue label ≡ green ribbon	slow filtration, smooth	0.16 mm	100 s	70 g/m ²
MN 640 d ≡ No. 42	green label ≡ blue ribbon	slow filtration, smooth	0.17 mm	140 s	85 g/m ²
MN 640 de		very slow filtration, smooth	0.2 mm	195 s	100 g/m ²

MACHEREY NAGEL manufactures a broad range of ashless filter papers that are refined and purified in a highly developed clean-up process to remove organic and inorganic impurities. This ensures a low ash content of < 0.01 %, consistent performance and safe results in gravimetric analyses.

MN640MD = No-40

MN 640 md is an ashless filter paper, which is slightly more retentive than MN 640 m with corresponding increase in filtration time.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
20400127	12.5 MM CIRCLE.	100	48232000	18%	1090
20400425	42.5 MM CIRCLE.	100	48232000	18%	1390
2040047	47 MM CIRCLE.	100	48232000	18%	1390
204007	70 MM CIRCLE.	100	48232000	18%	1990
204009	90 MM CIRCLE.	100	48232000	18%	2990
204011	110 MM CIRCLE.	100	48232000	18%	4190
204012	125 MM CIRCLE.	100	48232000	18%	4090
204015	150 MM CIRCLE.	100	48232000	18%	6690
204018	185 MM CIRCLE.	100	48232000	18%	9890
204024	240 MM CIRCLE.	100	48232000	18%	14690
204032	320 MM CIRCLE.	100	48232000	18%	25090
204101.1	460 x 570MM Sheets	100	48054000	12%	44290

MN640WE = No-41

MN 640 we is the fastest quantitative filter paper with highest flow rate. It is used for example in analytical procedures of samples with coarse or gelatinous particles.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
20100425	42.5 MM CIRCLE.	100	48232000	18%	1490
201005	55 MM CIRCLE.	100	48232000	18%	1490
201007	70 MM CIRCLE.	100	48232000	18%	1990
201009	90 MM CIRCLE.	100	48232000	18%	2990
201011	110 MM CIRCLE.	100	48232000	18%	4190
201012	125 MM CIRCLE.	100	48232000	18%	4090
201015	150 MM CIRCLE.	100	48232000	18%	6690
201018	185 MM CIRCLE.	100	48232000	18%	9890
201024	240 MM CIRCLE.	100	48232000	18%	14690
201111.1	460 x 570MM Sheets	100	48054000	12%	49890

MN640DE = No-42

MN 640 de is an ashless, very slow filter paper for the filtration of finest particles in quantitative range.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
20700425	42.5 MM CIRCLE.	100	48232000	18%	POR
207005	55 MM CIRCLE.	100	48232000	18%	1790
207007	70 MM CIRCLE.	100	48232000	18%	2390
207009	90 MM CIRCLE.	100	48232000	18%	3490
207011	110 MM CIRCLE.	100	48232000	18%	4790
207012	125 MM CIRCLE.	100	48232000	18%	4890
207015	150 MM CIRCLE.	100	48232000	18%	7790
207018	185 MM CIRCLE.	100	48232000	18%	11690
207024	240 MM CIRCLE.	100	48232000	18%	18290
207112.1	460 x 570MM Sheets	100	48054000	12%	50990



MN640M = No-43

MN 640 m is the classic, general purpose, ashless filter paper with medium speed and medium retention. Typical applications include gravimetric analysis for components, quantitative determinations of sediments and high purity clean up procedures.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
203009	90 MM CIRCLE.	100	48232000	18%	2990
203011	110 MM CIRCLE.	100	48232000	18%	4190
203012	125 MM CIRCLE.	100	48232000	18%	4790
203015	150 MM CIRCLE.	100	48232000	18%	6690
203018	185 MM CIRCLE.	100	48232000	18%	9890

MN640DD = No- 44

Filter paper, MN 640 dd, Quantitative, Slow (100 s), Smooth. MN 640 dd is an ashless, slow filter paper which is slightly less retentive than MN 640 d.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
206011	110 MM CIRCLE.	100	48232000	18%	4790
206012	125 MM CIRCLE.	100	48232000	18%	5690
206015	150 MM CIRCLE.	100	48232000	18%	7790
206018	185 MM CIRCLE.	100	48232000	18%	11690
206112.1	460 x 570MM Sheets	100	48232000	18%	POR

MN640d

MN 640 d is an ashless, slow filter paper with very fine particle retention. Standard paper for critical gravimetric analysis of fine precipitates like barium sulfate or metastannic acid.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
205009	90 MM CIRCLE.	100	48232000	18%	2990
205012	125 MM CIRCLE.	100	48232000	18%	4790



MN640w

MN 640 w is a fast, ashless filter paper. Recommended for analytical procedures involving coarse particles or gelatinous precipitates

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
202011	110 MM CIRCLE.	100	48232000	18%	2890
202012	125 MM CIRCLE.	100	48232000	18%	3290
202015	150 MM CIRCLE.	100	48232000	18%	6690
202116.1	460 x 570MM Sheets	100	48232000	18%	27290

Ashless hardened filter papers - Wet-strengthened

Wet-strengthened filter papers for quantitative analysis

These wet-strengthened hard filter papers are manufactured from refined pulp and linters and have a low ash content of < 0.01 %. They are often used for quantitative routine procedures and for analytical gravimetric applications. Due to their high mechanical strength in wet condition they are particularly suited for applications, where the residue is removed from the filter e.g. with a spatula or a jet of water.



Technical data

Grade	Properties	Thickness	Filtration speed	Basis weight
MN 1640 we	wet-strengthened, very fast filtration, smooth	0.22 mm	5 s	85 g/m ²
MN 1640 w	wet-strengthened, fast filtration, smooth	0.2 mm	9 s	85 g/m ²
MN 1640 m	wet-strengthened, medium fast filtration, smooth	0.2 mm	27 s	85 g/m ²
MN 1640 md	wet-strengthened, medium to slow filtration, smooth	0.2 mm	55 s	85 g/m ²
MN 1640 d	wet-strengthened, slow filtration, smooth	0.17 mm	140 s	85 g/m ²
MN 1640 de	wet-strengthened, very slow filtration, smooth	0.2 mm	195 s	100 g/m ²

MN1640MD = NO 540

MN 1640 md is a wet strengthened, ashless filter paper, which is slightly more retentive than MN 1640 m with corresponding increase in filtration time. The smooth surface allows fiber-free filtration, even for highly acidic and basic media.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
2240025	25 MM CIRCLE.	100	48232000	18%	POR
224011	110 MM CIRCLE.	100	48232000	18%	4190

MN1640WE = No-541

MN 1640 we is the fastest, wet-strengthened, quantitative filter paper with highest flow rate. It is used for example in analytical procedures of samples with coarse or gelatinous particles. The smooth surface allows fiber-free filtration, even for highly acidic and basic media.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
221011	110 MM CIRCLE.	100	48232000	18%	4190
221012	125 MM CIRCLE.	100	48232000	18%	4990
221015	150 MM CIRCLE.	100	48232000	18%	7390

MN1640w

MN 1640 w is a wet-strengthened, fast, ashless filter paper. Recommended for analytical procedures involving coarse particles or gelatinous precipitates. The smooth surface allows fiber-free filtration, even for highly acidic and basic media.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
222012	125 MM CIRCLE.	100	48232000	18%	4990
222015	150 MM CIRCLE.	100	48232000	18%	7390

MN1640DE = No-542

Filter paper circles, MN 1640 de, Quantitative, is a wet-strengthened, ashless, Very slow (195 s), Smooth filter paper for the filtration of finest particles in quantitative range. The smooth surface allows fiber-free filtration, even for highly acidic and basic media.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
227011	110 MM CIRCLE.	100	48232000	18%	4190
227012	125 MM CIRCLE.	100	48232000	18%	4990
227015	150 MM CIRCLE.	100	48232000	18%	7390

Filtering aids



Filter aids transform difficult precipitates and colloidal particles into a form which can be filtered more easily. When slimy and strongly lyophilic, swelling precipitates are involved, filter flocs prevent formation of a continuous, impermeable layer. A clogging of the filter is prevented.

[MN2101](#)

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
281140	FILTER ASHLESS CLIPPINGS	500gm	48232000	18%	5390
281120	FILTER FLOCS	500gm	48232000	18%	5790

Glass fiber filters without binder



Glass microfiber filters without binder are used for difference weight analysis. They have a high thermal and chemical stability and are commonly used in determination of total suspended solids, or for gravimetric analysis of particles in air and hot fumes.

MNGF-1 = GF/A

MN GF 1 is a binder-free glass fiber filter paper that offers fine particle retention, high flow rate and good loading capacity. It is used for high efficiency laboratory filtration as well as air sampling.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4110025	25 MM CIRCLE.	100	70193900	18%	3890
4110037	37 MM CIRCLE.	100	70193900	18%	4190
4110047	47 MM CIRCLE.	100	70193900	18%	5390
411005	55 MM CIRCLE.	100	70193900	18%	5390
411007	70 MM CIRCLE.	100	70193900	18%	6990
411009	90 MM CIRCLE.	100	70193900	18%	8790
411011	110 MM CIRCLE.	100	70193900	18%	11790
411012	125 MM CIRCLE.	100	70193900	18%	12190
400GF1203.1	203 x 254MM SHEETS	100	70193900	18%	38590

MNGF-2 = GF/B

MN GF 2 is a binder-free glass fiber filter paper with three times higher basis weight than GF 1. It combines fine particle retention with excellent loading capacity.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4120025	25 MM CIRCLE.	100	70193900	18%	4990
4120047	47 MM CIRCLE.	100	70193900	18%	9890
412007	70 MM CIRCLE.	100	70193900	18%	12590
412009	90 MM CIRCLE.	50	70193900	18%	17790
412011	110 MM CIRCLE.	25	70193900	18%	22890
412012	125 MM CIRCLE.	25	70193900	18%	30190

MNGF-3 = GF/C

MN GF 3 is slightly more retentive than MN GF 1. This binder-free glass fiber filter paper is used for the collection of suspended solids in potable water as well as natural and industrial waste water in many parts of the world.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4130025	25 MM CIRCLE.	100	70193900	18%	4190
4130037	37 MM CIRCLE.	100	70193900	18%	4990
41300425	42.5 MM CIRCLE.	100	70193900	18%	POR
4130047	47 MM CIRCLE.	100	70193900	18%	6890
413005	55 MM CIRCLE.	100	70193900	18%	7390
413007	70 MM CIRCLE.	100	70193900	18%	8690
413009	90 MM CIRCLE.	100	70193900	18%	12490
413011	110 MM CIRCLE.	100	70193900	18%	15890

MNGF-4 = GF/D

MN GF 4 is a binder-free glass fiber filter paper with good loading capacity and high flow rates.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4140025	25 MM CIRCLE.	100	70193900	18%	4190
4140047	47 MM CIRCLE.	100	70193900	18%	6990
414009	90 MM CIRCLE.	25	70193900	18%	14490
414012	125 MM CIRCLE.	100	70193900	18%	23790



MNGF-5 = GF/F

Glass fiber filter circles, MN GF 5, Binder-free, Retention capacity: 0.4 µm with excellent retention of fine particles. It is often used in combination with membranes to protect the membrane from clogging.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4150024	24 MM CIRCLE.	100	70193900	18%	POR
4150025	25 MM CIRCLE.	100	70193900	18%	10290
4150045	45 MM CIRCLE.	100	70193900	18%	13990
4150047	47 MM CIRCLE.	100	70193900	18%	14690
415009	90 MM CIRCLE.	100	70193900	18%	30390
415011	110 MM CIRCLE.	100	70193900	18%	42790
415012	125 MM CIRCLE.	100	70193900	18%	52690

MNGF-6

Glass fiber filter circles, MN GFI6, Binder-free, Retention capacity: 0.6 µm with medium retention and flow rate for general laboratory filtration.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4160025	25 MM CIRCLE.	100	70193900	18%	4490

MNQF-10 = QM/A

MN QF 10 are quartz fiber filters with exceptionally low metal content. They are especially suitable for air pollution monitoring.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4170047	47 MM CIRCLE.	100	70193900	18%	24790

MN85/90

Glass fiber filter with organic binder MN 85/90 is the most widely used, general purpose glass fiber filter with very good mechanical stability. The filter contains an organic binder and is stable up to 200 °C.



Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4050025	25 MM CIRCLE.	100	70193900	18%	2290
4050047	47 MM CIRCLE.	100	70193900	18%	POR
405009	90 MM CIRCLE.	100	70193900	18%	5490

MN85/90BF

MN 85/90 BF is a binder-free filter paper for difference weight analysis. This paper is especially used in water treatment facilities for example for the determination of suspended solids.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4060025	25 MM CIRCLE.	100	70193900	18%	3890
406009	90 MM CIRCLE.	100	70193900	18%	9990
406012	125 MM CIRCLE.	100	70193900	18%	14490
4060127	127 MM CIRCLE.	100	70193900	18%	POR

MN85/70

MN 85/70 is slightly less retentive than MN 85/90, lighter and thinner. The filter contains an organic binder for high mechanical strength with temperature stability up to 200 °C

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4030025	25 MM CIRCLE.	100	70193900	18%	1990
4030050	50 MM CIRCLE.	100	70193900	18%	2790
403009	90 MM CIRCLE.	100	70193900	18%	4590
40086/70/001	60 x 90 MM SHEETS	100	70193900	18%	POR

MN85/70BF

Glass fiber filter circles, MN 85/70 BF, Binder-free, Retention capacity: 0.6 µm

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4040025	25 MM CIRCLE.	100	70193900	18%	3490



MN85/220

MN 85/220 is a thick glass fiber paper with high basis weight for the filtration of large volumes of liquids.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4070025	25 MM CIRCLE.	100	70193900	18%	4390
407009	90 MM CIRCLE.	100	70193900	18%	11290
4070092	92 MM CIRCLE.	100	70193900	18%	POR

MN85/220BF

MN 85/220 BF is the binder-less alternative to MN 85/220. It is a thick glass fiber paper with high basis weight for the filtration of large volumes of liquids.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
4080025	25 MM CIRCLE.	100	70193900	18%	7890

Extraction thimbles standard quality made from cellulose



Extraction thimbles, made from cellulose, are available in five different types. MN 645 is standard grade for most applications, MN 645 D has a lid against floating of sample, MN 645 F is more dense and MN 645 W is less dense than the standard. MN 645 R is especially made for dust analysis.

MN645

MN 645 extraction thimbles are the standard grade, made from pure cellulose.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
645001	THICKNESS 1.0MM, 8x40MM	25	48237090	18%	14690
645005	THICKNESS 1.5MM, 20x80MM,	25	48237090	18%	14690
645006	THICKNESS 1.5MM, 22x80MM,	25	48237090	18%	14690
645007	THICKNESS 1.5MM, 23x90MM,	25	48237090	18%	14690
645008	THICKNESS 1.5MM 23x100MM	25	48237090	18%	14690
645009	THICKNESS 1.5MM, 27x80MM,	25	48237090	18%	14690
645010	THICKNESS 1.5MM 27x100MM	25	48237090	18%	14690
645011	THICKNESS 1.5MM, 27x60MM,	25	48237090	18%	14690
645056	THICKNESS 1.0MM, 19X90MM	25	48237090	18%	14690

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
645013	THICKNESS 1.5MM 28x100MM	25	48237090	18%	14690
645014	THICKNESS 1.5MM 28x120MM	25	48237090	18%	17090
645015	THICKNESS 1.5MM, 28x80MM,	25	48237090	18%	14690
645951	THICKNESS 1.5MM, 33x80MM,	25	48237090	18%	15890
645022	THICKNESS 1.5MM, 33x94MM,	25	48237090	18%	17590
645023	THICKNESS 1.5MM 30x100MM	25	48237090	18%	17590
645030	THICKNESS 2.0MM 40x150MM	25	48237090	18%	27590
645033	THICKNESS 2.0MM 48x145MM	25	48237090	18%	33190

MN645F

Extraction thimbles MN 645 F are made from cellulose, denser than MN 645.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
645423	THICKNESS 1.5MM 30X100MM	25	48237090	18%	17590



Extraction thimbles made from high purity glass fibres



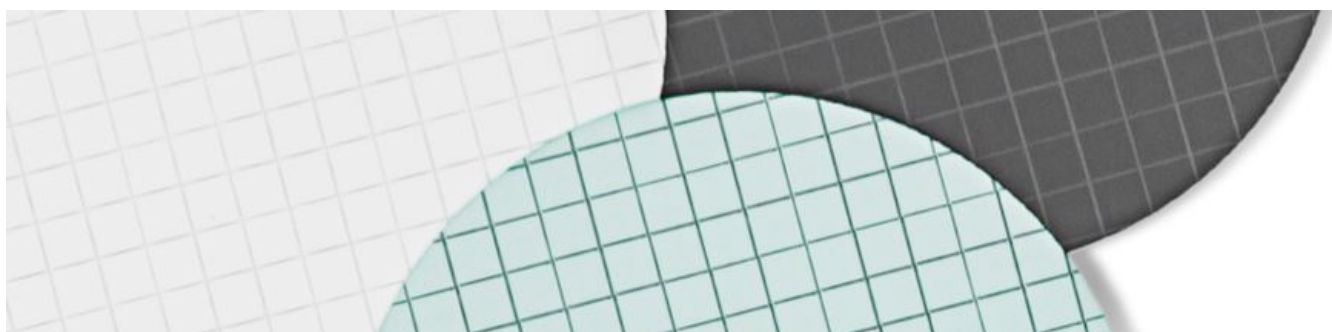
Glass fiber extraction thimbles from MACHEREYINAGEL are made from pure borosilicate glass microfibers without addition of binders. They have a high particle retention and temperature resistance of 500 °C. Therefore, they are perfectly suited for dust analysis in hot exhaust gases.

MN649

Glass fiber extraction thimbles MN 649 are made from glass microfibers without binder, short-term temperature resistance up to 500 °C, very high particle retention, for dust analysis in hot exhaust gases.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
649118	Thickness 1.0MM, 30x150MM,	25	70199010	18%	39990
649123	Thickness 1.0MM, 33x100MM,	25	70199010	18%	32990
649128	Thickness 1.0MM, 35x150MM,	25	70199010	18%	46490
649160	Thickness 1.0MM, 19x90MM,	25	70199010	18%	POR

Membranes - PORAFIL membranes for microfiltration



A broad range of membranes for micro-filtration. PORAFIL membranes are available from different materials: cellulosebased and polymeric. They are suitable for microbiological applications, sample preparation, gravimetric analysis and solvent purification.

PORAFIL MV

Membrane filters PORAFIL MV, Cellulose mixed ester, Fabric-reinforced, White membranes are reinforced with a polyester fabric. Their filtration properties are very similar to membranes PORAFIL CM, however, they are mechanically much more stable.

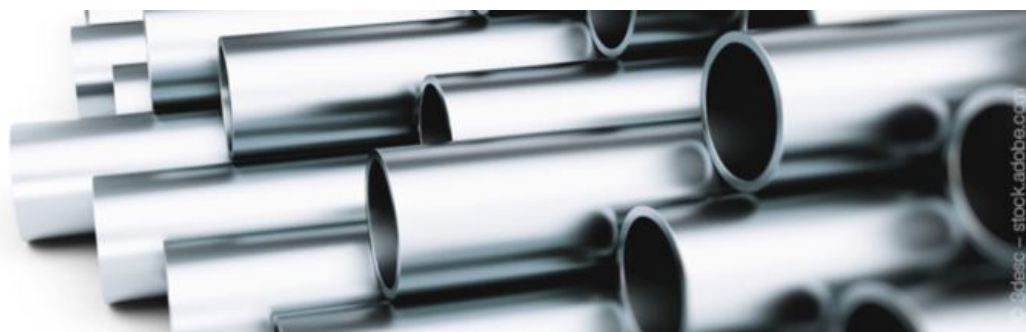
Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
65000020047	47 MM CIRCLE.	100	39207990	18%	12690
65000045047	47 MM CIRCLE.	100	39207990	18%	12690

PORAFIL CM with grid, Cellulose mixed ester

Membrane filters PORAFIL CM, cellulose mixed ester, white are ideal for gravimetric analysis. They are particularly suited for aqueous solutions. The hydrophilic membrane is thermally stable to 125 °C and can be autoclaved at 121 °C. This membrane is often used for contamination tests.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
65300045047	47 MM CIRCLE.	100	39207990	18%	25390

Filter products for electro plating



Electroplating baths used for galvanic processes are often cleaned with filter pumps. Usually, such filter pumps consist of 30–100 filter plates each equipped with one filter circle with an inner hole.

MN728

Filter paper circles, MN 728, Activated charcoal, Slow (55 s), Smooth, MN 728 contains activated charcoal. It is particularly suited for decolorization of solutions. The activated charcoal is incorporated in the paper and cannot be washed out into the filtrate.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
481005	55 MM CIRCLE.	100	48232000	18%	2190
481007	70 MM CIRCLE.	100	48232000	18%	2190
481009	90 MM CIRCLE.	100	48232000	18%	3090
481011	110 MM CIRCLE.	100	48232000	18%	4190
481012	125 MM CIRCLE.	100	48232000	18%	4990

Chromatography paper



Paper chromatography requires high quality papers, since they have a considerable impact on the results of a separation. MACHEREY NAGEL chromatography papers are almost exclusively produced from pure linters without addition of other substances.

MN260

MN 260 is a thin chromatography paper made from cotton-linters with good absorption and high capillary rise. It is also used for spot-tests.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
817260046	460 x 570 MM Sheets	100	48054000	12%	25590

MN261

MN 261 is a thin chromatography paper made from cotton-linters with good absorption and good capillary rise.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
40026100127.1	12.7 MM	100	48054000	12%	1690
817004A	580 x 600 MM Sheets	100	48054000	12%	25890

MN866

MN 866 is very thick and heavy chromatography paper with excellent absorption and very high capillary rise.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
817866021	190 x 190 MM Sheets	100	48232000	18%	31890

Technical filter papers



MACHEREY NAGEL offers customers in the manufacturing and production industry a wide range of products. With the acquisition of the traditional Poerringer paper mill, this product range was once again significantly expanded. We offer special technical papers for very different applications. Whether thin, smooth papers for electroplating, large-format filter boards for the automotive and oil industries, or rolls for VENEMA filtration robots in the sugar beet industry, MACHEREY-NAGEL has the right product for every branch of industry. Our technical paper grades have been developed for special applications. For decades, they have been firmly anchored in many work specifications, as their constant filtration properties guarantee optimum results.

MN180

MN 180 is a medium fast, medium wet-strength, hard, technical filter paper. It is commonly used for regeneration of transformer oils and electroplating baths.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
111080A	665 x 665 MM Sheets	100	48054000	12%	38690

MN220

MN 220 is dyed black with a sulfur dye. It is used to identify small quantities of bright precipitates. For example, it is used for the detection of fluorine or silicon. Filter paper circles, MN 220, Black, Slow (45 s), Smooth

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
409012	125 MM CIRCLE.	100	48232000	12%	4390
409011	110 MM CIRCLE.	100	48232000	12%	3690

MN321

MN 321 is a nitrogen-free, fast filter paper. It is often used for malt analysis in breweries. Filter paper circles, MN 321, Nitrogen-free, Fast (5 s), Smooth

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
410032	320 MM CIRCLE.	100	48232000	18%	POR

MN710

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
150010	580 x 580 MM Sheets	100	48054000	12%	6390

MN713

MN 713 is a medium fast, technical all-round filter paper. It used in filtration of e.g. alcohols, syrups, lacquers, spirits and for covering of bench tops and cupboards. Filter paper sheets MN 713, Technical, Medium fast (20 s), Smooth

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
152020	450 x 450 MM Sheets	100	48054000	12%	POR
152010	580 x 580 MM Sheets	100	48054000	12%	POR

MN604

MN 604 is a thick and fast technical filter paper. It find application in beverage industry e.g. for the filtration of fruit juices or wine. Filter paper sheets MN 604, Technical, Fast (11 s), Smooth

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
122010A	580 x 580 MM Sheets	100	48054000	12%	36290

MN675

MN 675 is a slow, firm technical filter paper which is used for filtration of large volumes of liquids. Filter paper sheets MN 675, Technical, Slow (60 s), Smooth



Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
148010	580 x 580 MM Sheets	100	48054000	12%	POR

MN918

MN 918 is a fast, technical filter paper for filtration of large volumes of liquids e.g. essences and extracts. Filter paper circles, MN 918, Technical, Fast (9 s), Smooth

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
461007	70 MM CIRCLE.	100	48232000	18%	1190
461009	90 MM CIRCLE.	100	48232000	18%	1390
461011	110 MM CIRCLE.	100	48232000	18%	1790

MN804

MN 804 is a very fast, soft technical filter paper, which is used in beverage industry. Filter paper sheets MN 804, Technical, Very fast (5 s), Smooth

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
400804007	70 MM CIRCLE.	100	48054000	12%	POR
400804011	110 MM CIRCLE.	100	48054000	12%	POR

MN818

MN 818 is a highly-absorptive, fast filter paper. It is used for technical filtration and spot-tests e.g. Guthrie tests (for non-medical applications only). Filter paper sheets MN 818, Strongly-absorbent, Fast (8 s), Smooth

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
156050A	500 x 500 MM Sheets	100	48054000	12%	32490

MN605

MN 605 is a very fast, crepped paper for technical filtration. It is used in filtration of essential oils, paint or gelatin.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
523024	240 MM CIRCLE.	100	48232000	18%	8990



MN619G

MN 619 G is a slow, phosphate-free filter paper which is made especially for soil analysis.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
440005	55 MM CIRCLE.	100	48232000	18%	890

MN625

MN 625 is a medium fast, technical filter paper for general applications.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
443005	55 MM CIRCLE.	100	48232000	18%	1090

MN651/120

Filter Paper Sheets MN 651/120 crepped parallel to long side-

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
400651/120/106	180 x 580 MM Sheets	100	48232000	18%	25790

Lens paper



MN 13 is a thin, soft, non-fluffing tissue paper for cleaning optical glasses, lenses and cuvettes. It is also suitable as protective paper for metallographic sections.

MN13

MN 13 (José or Joseph paper) is a thin, soft, non-fluffing tissue paper for cleaning optical glasses or cuvettes. It is also suitable as protective paper for metallographic sections.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
118000	80 x 100 MM Sheets	50	48232000	18%	910
418101	120 x 120 MM Sheets	500	48232000	18%	3890

MN224

Microscopy paper MN 224, is a paper with good absorbent properties for absorbing liquids from microscopic preparations.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
185000	37 x 100 MM Sheets	50	48232000	18%	4890

Phase separation paper



MACHEREY NAGEL phase separation papers are made hydrophobic (impermeable to water) by impregnation with a silicone oil. With the aid of these filters, water can be separated from water-immiscible organic solvents in an elegant manner, by means of a simple filtration.

MN616WA

MN 616 WA is made hydrophobic (impermeable to water) by impregnation with a silicone. With these filters, water can be separated from water-immiscible organic solvents by a simple filtration.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
483012	125 MM CIRCLE.	100	48232000	18%	2090
484011	110 MM CIRCLE.	100	48232000	18%	2790
484015	150 MM CIRCLE.	100	48232000	18%	5190

MN617WA

MN 617 WA is made hydrophobic (impermeable to water) by impregnation with a silicone. With the aid of these filters, water can be separated from water-immiscible organic solvents by a simple filtration.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
430012	125 MM CIRCLE.	100	48232000	18%	3790

Weighing aids



Weighing boats MN 808 from special, nitrogen-free parchment are used to weigh viscous or syrupy samples. Weighing paper MN 226 is transparent and smooth, which guarantees that weighed goods are transferred without loss. MN 40/25 are easily crushable parchment papers which are mainly used for syrupy and semi-crystalline samples.

MN808

Weighing boats MN 808 are made from a special, nitrogen-free parchment. They are used to weigh viscous or syrupy substances.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
486000	58 x 10 x 10 MM Sheets	100	48061000	12%	14890

MN226

MN 226 is a transparent paper, smooth on both sides, which can be used as substitute for weighing boats. The smooth surface of the paper guarantees that the weighed goods can be transferred without loss

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
186002	90 x 115 MM Sheets	100	48064010	12%	1690

MN40/25

MN 40/25 sheets are easily crushable (not wet-strengthened) parchment papers, which are mainly used in the sugar industry for weighing syrupy and semi-crystalline substances.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
194000	100 x 100 MM Sheets	100	48061000	12%	3990

Surface protection paper



This filter paper is coated on one side with polyethylene, e.g. for covering laboratory workbenches. The filter paper absorbs spilt liquids. It is especially suited for isotope and bacteriological laboratories as well as for chemical storerooms and cupboards.

MN210PE

MN 210 PE is coated on one side with polyethylene, e.g. for covering laboratory workbenches. The filter paper absorbs spilt liquids. It is especially suited for isotope and bacteriological laboratories as well as for chemical storerooms and cupboards.

Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
112000.1	480 x 600 MM Sheets	50	48054000	12%	15390
112000A	480 x 600 MM Sheets	100	48054000	12%	25590



We provide optimal and reliable solutions for your laboratory work in sample preparation, method development and routine analysis.

Standard silica layers for TLC



Glass plates



ALUGRAM® Xtra aluminum sheets
ALUGRAM® aluminum sheets



POLYGRAM® polyester sheets

Standard filter papers for qualitative analysis are manufactured from the same raw materials as the ashless grades and are particularly suited for general laboratory filtrations. The average ash content is about 0.1%, the amount of a cellulose is about 95%.

ADAMANT - unmodified standard silica layers

ADAMANT ^G unmodified standard silica layers

★ Key features

- Outstanding hardness and abrasion resistance due to an optimized binder system
- Increased separation efficiency due to an optimized particle size distribution
- High suitability for trace analysis resulting from a UV indicator with increased brilliance and a lownoise background of the layer

🔧 Technical characteristics

- Silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 5–17 µm

TLC glass plates, silica gel layer, ADAMANT, Layer thickness: 250 µm, TLC glass plates in different plate sizes for many different applications. The ADAMANT is the hardest TLC ready-to-use layer from MACHEREY-NAGEL. Unmodified silica gel (SiOH) with an extra binder system for outstanding abrasion resistance. Available as glass plates with or without fluorescent indicator.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
821010.200	Glass plate Silica gel 60G	5 x 10	200	38220090	12%	49090
821050	Glass plate Silica gel 60G	10 x 10	25	38220090	12%	12590
821060	Glass plate Silica gel 60G	20 x 20	25	38220090	12%	29590
821020	Glass plate Silica gel 60G UV254	10 x 10	25	38220090	12%	12590

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
821030	Glass plate Silica gel 60G UV254	20 x 20	25	38220090	12%	29590

ALUGRAM Xtra SIL G - unmodified standard silica layers on aluminium

ALUGRAM® Xtra SIL G Ax unmodified standard silica layers on aluminum

★ Key features

- Outstanding wettability for precise colorization results, even with 100 % aqueous detection reagents
- Excellent separation efficiency and reproducibility from lot to lot
- Easy and reliable cutting due to an optimized binder system, no flaking of silica

📌 Technical characteristics

- Silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 5–17 µm
- Binder: highly polymeric product, which is stable in almost all organic solvents and resistant towards aggressive visualization reagents, also completely stable in purely aqueous eluents

Silica 60, mean pore size 60 Å, specific pore volume 0.75 mL/g, particle size 5–17 µm Indicator: manganese activated zinc silicate with green fluorescence for short-wave UV (254 nm); special inorganic fluorescent pigment with blue fluorescence for long-wave UV (366 nm) Binder: highly polymeric product, which is stable in almost all organic solvents and resistant towards aggressive visualization reagents; binder system for ALUGRAM® Xtra is also completely stable in purely aqueous eluents.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
818230.20	ALUGRAM Xtra-Sheets SIL G	5 x 7.5	20	38220090	12%	4790
818261	ALUGRAM Xtra-Sheets SIL G	5 x 10	50	38220090	12%	10890
818233	ALUGRAM Xtra-Sheets SIL G	20 x 20	25	38220090	12%	9790
818329	ALUGRAM Xtra-Sheets SIL G/UV254	2.5 x 7.5	100	38220090	12%	23390
818331	ALUGRAM Xtra-Sheets SIL G/UV254	4 x 8	50	38220090	12%	7190
818330.20	ALUGRAM Xtra-Sheets SIL G/UV254	5 x 7.5	200	38220090	12%	4790
818360	ALUGRAM Xtra-Sheets SIL G/UV254	5 x 10	100	38220090	12%	10890
818362	ALUGRAM Xtra-Sheets SIL G/UV254	10 x 20	50	38220090	12%	12690
818333	ALUGRAM Xtra-Sheets SIL G/UV254	20 x 20	25	38220090	12%	6655

SIL G - unmodified standard silica layers

SIL G G P A unmodified standard silica layers

Technical characteristics



- Silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 5–17 µm
- Thickness of layer for analytical plates 0.25 mm, for preparative plates 0.5 and 1 mm; for 2 mm preparative layers a slightly coarser material is used
- Indicators: manganese activated zinc silicate with green fluorescence for short-wave UV (254 nm); special inorganic fluorescent pigment with blue fluorescence for long-wave UV (366 nm)
- Binders: highly polymeric products, which are stable in almost all organic solvents and resistant towards aggressive visualization reagents; binder system for POLYGRAM® sheets is also completely stable in purely aqueous eluents

TLC polyester sheets, silica gel layer, POLYGRAM SIL G, (SiOH).

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
809017	TLC glass plates SIL G, 250 µm	5 x 10	50	38220090	12%	22590
809012	TLC glass plates SIL G, 250 µm	10 x 20	50	38220090	12%	33190
809013	TLC glass plates SIL G, 250 µm	20 x 20	25	38220090	12%	29590
809027	TLC precoated plates SIL G-25 UV254 250µm	5 x 10	50	38220090	12%	22590
809027.200	TLC precoated plates SIL G-25 UV254 250µm	5 x 10	200	38220090	12%	49090
809020	TLC precoated plates SIL G-25 UV254 250µm	10 x 10	25	38220090	12%	12590
809022	TLC precoated plates SIL G-25 UV254 250µm	10 x 20	50	38220090	12%	33190
809023	TLC precoated plates SIL G-25 UV254 250µm	20 x 20	25	38220090	12%	29590
809123	TLC precoated plates SIL G-25 UV 254+366, 250µm	20 x 20	25	38220090	12%	27790
809053	TLC precoated plates SIL G-50 UV254, 500µm	20 x 20	20	38220090	12%	38890

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
809063	TLC glass plates SIL G UV254, 1000µm	20 x 20	15	38220090	12%	40690
809083	TLC glass plates SIL G UV254, 2000 µm	20 x 20	12	38220090	12%	43990
805013	POLYGRAM sheets SIL G, 200 µm	20 x 20	25	38220090	12%	23190
805023	POLYGRAM sheets SIL G/UV254, 200µm	20 x 20	25	38220090	12%	23190
818033	ALUGRAM sheets SIL G, 200µm	20 x 20	25	38220090	12%	23190
818131	ALUGRAM sheets SIL G/UV254, 200µm	4 x 8	50	38220090	12%	7190
818133	ALUGRAM sheets SIL G/UV254, 200µm	20 x 20	25	38220090	12%	23190
818162	ALUGRAM-Sheets SIL G/UV254, 200µm	10 x 20	20	38220090	12%	12690

Alox aluminum oxide layers

<div> Alox G P A aluminum oxide layers </div>						
 Technical characteristics <ul style="list-style-type: none"> Aluminum oxide, mean pore size 60 Å, specific surface (BET) ~ 200 m²/g Inert organic binder Indicator: manganese-activated zinc silicate 			 Recommended application <ul style="list-style-type: none"> Terpenes, alkaloids, steroids, aliphatic and aromatic compounds We recommend to activate aluminum oxide layers before use by heating 10 minutes at 120 °C 			
Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
802021	POLYGRAM sheets ALOX N/UV254	4 x 8	50	38220090	12%	7890
802022	POLYGRAM sheets ALOX N/UV254	5 x 20	50	38220090	12%	16090
807021	TLC precoated plates ALOX-25 UV 254	5 x 20	100	38220090	12%	36690
807023	TLC precoated plates ALOX-25 UV 254	20 x 20	25	38220090	12%	27190
818023	ALUGRAM-sheets ALOX N/UV 254	20 x 20	25	38220090	12%	24090
818024	ALUGRAM sheets ALOX N/UV 254	5 x 20	50	38220090	12%	16090

Cellulose MN 300 native fibrous cellulose layers

Cellulose MN 300 G P A native fibrous cellulose layers



Technical characteristics

- Fiber length (95 %) 2–20 µm, average degree of polymerization 400–500, specific surface acc. to Blaine 15 000 cm²/g, ≤ 20 ppm Fe, 6 ppm Cu, 7 ppm P; CH₂Cl₂- extract ≤ 0.25 %; residue on ignition at 850 °C ≤ 1500 ppm



Recommended application

- Partition chromatography of polar substances such as amino acids, carboxylic acids or carbohydrates

TLC polyester sheets, cellulose layer, POLYGRAM CEL 300, TLC polyester sheets with native fibrous cellulose.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
801013	POLYGRAM sheets CEL 300	20 x 20	25	38220090	12%	26090
808013	TLC precoated plates CEL 300-10	20 x 20	25	38220090	12%	30090
808023	TLC precoated plates CEL 300-10 UV 254	20 x 20	25	38220090	12%	30090
808043	TLC precoated plates CEL 300-25 UV 254	20 x 20	25	38220090	12%	50290
808053	TLC precoated plates CEL 300-50	20 x 20	25	38220090	12%	50290
818153	ALUGRAM sheets CEL 300	20 x 20	25	38220090	12%	26090
818155	ALUGRAM sheets CEL 300	4 x 8	50	38220090	12%	7690
818156	ALUGRAM sheets CEL 300/UV 254	20 x 20	25	38220090	12%	26090

Cellulose MN 300 PEI PEI-impregnated cellulose ion exchange layers

Cellulose MN 300 PEI P PEI-impregnated cellulose ion exchange layers



Technical characteristics

- Fibrous cellulose impregnated with polyethyleneimine



Recommended application

- Analysis of nucleic acids, and of mutagenic substances with the ³²P postlabelling procedure

TLC polyester sheets with fibrous cellulose impregnated with polyethyleneimine (PEI).

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
801063	POLYGRAM sheets CEL 300 PEI/UV254	20 x 20	25	38220090	12%	32290



Cellulose MN 301 native fibrous cellulose

Cellulose MN 301 native fibrous cellulose

- Standard grade, fiber length (95 %) 2–20 µm
- Average degree of polymerization 400–500, specific surface acc. to Blaine 15 000 cm²/g

- ≤ 20 ppm Fe, 6 ppm Cu, 7 ppm P, CH₂Cl₂ extract ≤ 0.25 %, residue on ignition at 850 °C ≤ 1500 ppm

TLC adsorbents for self-coating of glass plates or foils used in thin layer chromatography.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
816250.1	Cellulose powder MN 301	Particle size 2–20 µm	1 Kg	39129090	12%	20690

Cellulose MN 400 (AVICEL®) microcrystalline cellulose layers

Cellulose MN 400 (AVICEL®) microcrystalline cellulose layers

Technical characteristics

- Prepared by hydrolysis of high purity cellulose with HCl, average degree of polymerization 40–200

Recommended application

- Carboxylic acids, lower alcohols, urea and purine derivatives

Cellulose MN 400 (AVICEL®) are microcrystalline cellulose layers for TLC. Prepared by hydrolysis of high purity cellulose with HCl; mean degree of polymerization 40–200. Available as glass plates and POLYGRAM polyester sheets.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
808072	TLC precoated plates CEL 400-10	10x20	50	38220090	12%	41790

CHIRALPLATE special layer enantiomer separation

CHIRALPLATE special layer enantiomer separation

Technical characteristics

- Reversed phase nano silica impregnated with Cu²⁺ ions and a chiral selector (proline derivative)
- Separation based on ligand exchange, i.e. formation of ternary mixed-ligand complexes with the Cu(II) ions, differences in the stability of the diastereomeric complexes cause chromatographic separation

Recommended application

- Enantiomer separation of amino acids, *N*-methylamino acids, *N*-formylamino acids, α -alkylamino acids, thiazolidine derivatives, dipeptides, lactones, α -hydroxycarboxylic acids

CHIRALPLATE - Special layer for TLC enantiomer separation. Separation based on ligand exchange, i. e. formation of ternary mixed-ligand complexes with Cu(II) ions. Differences in the stability of the diastereomeric complexes cause chromatographic separation. Available as glass plates with fluorescent indicator. A review on the application of CHIRALPLATE has been given by K. Günther [J. Chromatogr. 448 (1988) 11–30].

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
811056	TLC precoated plates CHIRALPLATE	10x20	4	38220090	12%	16290

DURASIL unmodified standard silica layers

DURASIL unmodified standard silica layers

Technical characteristics

- Silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 5–17 µm
- Hard, water-resistant and wettable layers due to a special binder system

TLC glass plates in different plate sizes for many different applications. Coated with unmodified silica gel (SiOH). Hard layer that shows other results than SIL G, ADAMANT or SIL HD layers. It is often used for TCM applications.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
812003	TLC precoated plates DURASIL-25	10 x 20	50	38220090	12%	33190

Mixed layers for TLC

Mixed layers for TLC

Alox/CEL-AC-Mix-25:

- Mixed layer of aluminum oxide G and acetylated cellulose, recommended for separation of PAH

SILCEL-Mix-25:

- Mixed layer of cellulose and silica, recommended for separation of preservatives and other antimicrobial compounds

TLC glass plates in different plate sizes for many different applications. SILCEL-Mix is a mixed layer of cellulose and silica gel.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
810043	TLC precoated plates SILCEL-Mix-25 UV 254	20 x 20	25	38220090	12%	43390

Polyamid-6 ε-polycaprolactame layers

Polyamid-6 ε-polycaprolactame layers

Technical characteristics

- Polyamide 6 = nylon 6 = perlon = ε-aminopolycaprolactame
- Separation mechanism based on hydrogen bonds to amide groups of the polymer matrix as well as on ionic, dipole and electron donor-acceptor interactions

Recommended application

- Natural compounds, phenols, carboxylic acids, aromatic nitro compounds and especially amino acids

TLC polyester sheets with polyamide 6 (PA6, ε-polycaprolactame).

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
803023	POLYGRAM sheets POLYAMIDE-6 UV254	20 x 20	25	38220090	12%	36090

RP-18 W/UV254 octadecyl-modified HPTLC silica layers

RP-18 W/UV₂₅₄ octadecyl-modified HPTLC silica layers

Technical characteristics

- Nano silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 2–10 µm, for preparative plates (1 mm thickness of layer) standard silica 60, pH stability 2–10, particle size 5–17 µm
- Indicator: acid-resistant product with a pale blue fluorescence for short-wave UV (254 nm), UV-absorbing substances appear as dark-blue to black spots on a light-blue background

Modification

- Partial octadecyl (C₁₈) modification, wettable with water, carbon content 14 %
- Order of polarity:
silica > DIOL > NH₂ > CN > RP-2 > C18-50 > RP-18 W > C18-100

Recommended application

- NP or RP separation with eluents from anhydrous solvents to mixtures with high concentrations of water (see table and figure on previous page), relative polarity of the eluent determines the polarity of the layer
- Aminophenols, barbiturates, preservatives, nucleobases, polycyclic aromatic hydrocarbons, steroids, tetracyclines, plasticizers (phthalates)

HPTLC aluminum sheets with octadecyl (C18, ODS, RP18) modified silica gel. RP-18 W is wettable with water.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
818144	ALUGRAM sheets RP-18 W/UV254	4 x 8	50	38220090	12%	20790
818145	ALUGRAM sheets RP-18 W/UV254	5x10	50	38220090	12%	45790
818146	ALUGRAM sheets RP-18 W/UV254	20x20	25	38220090	12%	60690
818152	ALUGRAM sheets RP-18 W/UV254	5x10	50	38220090	12%	24790
811071	TLC/HPTLC precoated plates RP- 18 W	20 x 20	25	38220090	12%	79290
811072	TLC/HPTLC precoated plates RP- 18 W	10 x 20	50	38220090	12%	101190

SIL G-25 HR special layer for aflatoxin separation

SIL G-25 HR special layer for aflatoxin separation

Technical characteristics

- High purity silica 60 with gypsum and a very small quantity of a polymeric organic binder; softer than the standard silica layer, i.e. spots can be scratched and the layer absorbs faster

Recommended application

- Aflatoxins

TLC glass plates in different plate sizes for many different applications, coated with unmodified high purity silica gel (SiOH).

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
809033	TLC precoated plates SIL G-25 HR	20 x 20	25	38220090	12%	33390
809043	TLC precoated plates SIL G-25 HR/UV 254	20 x 20	25	38220090	12%	33390

SIL N-HR unmodified standard silica layers

SIL N-HR unmodified standard silica layers

Technical characteristics

- High purity silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 5–17 µm, different binder system compared to SIL G results in different separation characteristics

- A special feature of the POLYGRAM® SIL N-HR is a higher gypsum content

TLC polyester sheets with unmodified high purity silica gel (SiOH). Higher gypsum content and different binder system compared to SIL G results in different separation characteristics.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
804022	POLYGRAM sheets SIL N-HR/UV254	5 x 20	50	38220090	12%	13190

TLC / HPTLC plates and sheets

Nano-ADAMANT unmodified HPTLC silica layers

★ Key features

- Outstanding hardness and abrasion resistance due to an optimized binder system
- Increased separation efficiency due to an optimized particle size distribution
- High suitability for trace analyses resulting from a UV indicator with increased brilliance and a lownoise background of the layer

🔧 Technical characteristics

- Nano silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 2–10 µm

Use our TLC and HPTLC glass plates, aluminum and polyester sheets for your rapid and inexpensive thin layer chromatography methods. We offer various reliable coatings for normal phase and reversed phase. We also gladly offer you samples to test the right product for your applications in advance.

Nano-ADAMANT unmodified HPTLC silica layers

Nano-ADAMANT unmodified HPTLC silica layers

★ Key features

- Outstanding hardness and abrasion resistance due to an optimized binder system
- Increased separation efficiency due to an optimized particle size distribution
- High suitability for trace analyses resulting from a UV indicator with increased brilliance and a lownoise background of the layer

🔧 Technical characteristics

- Nano silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 2–10 µm

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
821140	Nano-ADAMANT HPTLC precoated plates	10 x 10	25	38220090	12%	30090

Nano-SIL unmodified HPTLC silica layers

Nano-SIL unmodified HPTLC silica layers

Technical characteristics

- Nano silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, particle size 2–10 µm
- Binder: highly polymeric product, which is stable in almost all organic solvents and resistant towards aggressive visualization reagents
- Indicator: manganese activated zinc silicate with green fluorescence for short-wave UV (254 nm)

HPTLC glass plates in different plate sizes for many different applications, unmodified silica gel (SiOH).

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
811011	TLC/HPTLC precoated plates Nano-SIL-20	5 x 5	100	38220090	12%	39390
818240	ALUGRAM Xtra sheets Nano-SIL G	5 x 20	25	38220090	12%	25190
818241	ALUGRAM Xtra sheets Nano-SIL G	20 x 20	25	38220090	12%	42890
818343	ALUGRAM Xtra sheets Nano-SIL G/UV254	20 x 20	25	38220090	12%	42890

Nano-SILGUR unmodified HPTLC silica layers with concentrating zone

Nano-SILGUR unmodified HPTLC silica layers with concentrating zone

Technical characteristics

- Nano silica 60, pore size 60 Å, specific surface (BET) ~ 500 m²/g, mean specific pore volume 0.75 mL/g, particle size 2–10 µm
- Kieselguhr zone for rapid sample application (see page 278)

HPTLC aluminum sheets with unmodified silica gel (SiOH) and concentrating zone (kieselguhr, diatomaceous earth or diatomite).

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
818442	ALUGRAM Xtra sheets Nano-SILGUR UV254	10 x 10	25	38220090	12%	37590

Nano-SIL C18, octadecyl-modified HPTLC silica layers

Nano-SIL C18 octadecyl-modified HPTLC silica layers

Technical characteristics

- Nano silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, pH stability 2–10, particle size 2–10 µm
- Indicator: acid-resistant product with a pale blue fluorescence for short-wave UV (254 nm), UV-absorbing substances appear as dark-blue to black spots on a light-blue background

Modification

- Partial (50 %) or complete (100 %) octadecyl modification, carbon content 7.5 and 14 %, respectively
- Order of polarity:
silica > DIOL > NH₂ > CN > RP-2 > C18-50 > RP-18 W > C18-100

Recommended application

- Reversed phase separation mode with eluents from anhydrous solvents to mixtures with high concentrations of water (see table and figure below)
- Alkaloids, amino acids, preservatives, optical brighteners, barbiturates, polycyclic aromatic hydrocarbons (PAH), drugs, peptides, flavonoids, phenols, indole derivatives, steroids

HPTLC glass plates in different plate sizes for many different applications. Silica gel with octadecyl (C18, ODS, RP18) modification. Carbon content: approx. 14 %.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
811062	HPTLC/TLC precoated plates Nano-SIL C18-100 UV 254	10 x 10	25	38220090	12%	61090
811064	HPTLC/TLC precoated plates Nano-SIL C18-50 UV 254	10 x 10	25	38220090	12%	61090

Modified silica layers



RP-2/UV254 “silanized silica” = dimethyl-modified standard silica layers

RP-2/UV ₂₅₄ G A “silanized silica” = dimethyl-modified standard silica layers		
<p> Technical characteristics</p> <ul style="list-style-type: none"> • Silica 60, mean pore size 60 Å, specific surface (BET) ~ 500 m²/g, specific pore volume 0.75 mL/g, pH stability 2–10, particle size 5–17 µm • Indicator: acid-resistant product with a pale blue fluorescence for short-wave UV (254 nm), UV-absorbing substances appear as dark-blue to black spots on a light-blue background 	<p> Modification</p> <ul style="list-style-type: none"> • Silanized silica with dimethyl modification, carbon content 4 % • Order of polarity: silica > DIOL > NH₂ > CN > RP-2 > C18-50 > RP-18 W > C18-100 	<p> Recommended application</p> <ul style="list-style-type: none"> • Normal phase or reversed phase separation modes with purely organic, organic - aqueous or purely aqueous eluents • Active plant constituents, steroids

TLC glass plates, modified silica gel layer, RP-2 UV254, HPTLC glass plates in different plate sizes for many different applications. RP-2 (“silanized silica”) = silica gel with dimethyl (RP2, C2) modification.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
811081	TLC precoated plates RP-2 UV254 (silanized silica gel)	10 x 20	50	38220090	12%	63990
811082	TLC precoated plates RP-2 UV254 (silanized silica gel)	20 x 20	25	38220090	12%	47390
818171	ALUGRAM sheets RP-2/UV254	20 x 20	25	38220090	12%	44490