



MACHEREY-NAGEL

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Filtration Products
Chromatography
Rapid Tests
Water Analysis

Price List 2022-23

www.mnfilter.com

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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

MACHERY 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 GF6, 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



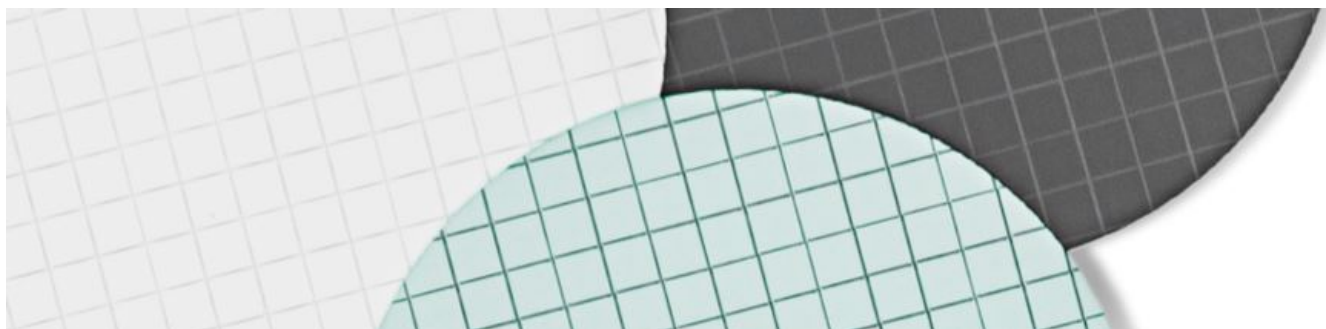
Glass fiber extraction thimbles from MACHEREYINAGEL are made from pure borosilicate glass microfibers without addition of binders. They have a high particle retention and temperature resistance of 500 °C. Therefore, they are perfectly suited for dust analysis in hot exhaust gases.

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.

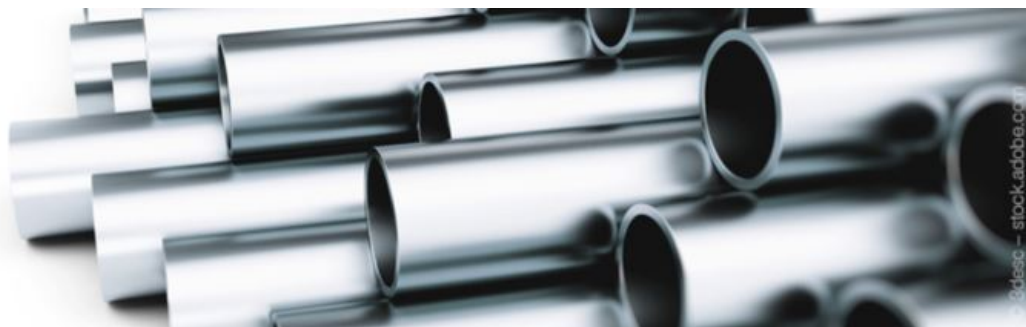
Cat NO.	Diameter MM	Pack size	HS code	GST	Price (₹)
65000020047	47 MM CIRCLE.	100	39207990	18%	12690
65000045047	47 MM CIRCLE.	100	39207990	18%	12690

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

Chromatography

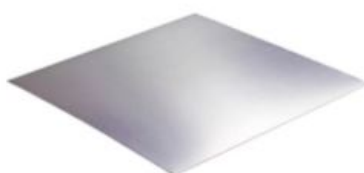


We provide optimal and reliable solutions for your laboratory work in sample preparation, method development and routine analysis.

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 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

Alox G P A aluminum oxide layers



Technical characteristics

- Aluminum oxide, mean pore size 60 Å, specific surface (BET) ~ 200 m²/g
- Inert organic binder
- Indicator: manganese-activated zinc silicate



Recommended application

- 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		
 Technical characteristics • 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	 Modification • Silanized silica with dimethyl modification, carbon content 4 % • Order of polarity: silica > DIOL > NH₂ > CN > RP-2 > C18-50 > RP-18 W > C18-100	 Recommended application • 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

TLC adsorbents and accessories



If you would like to coat TLC plates yourself, we offer suitable adsorbents for thin layer chromatography. In addition to our ready-to-use layers in TLC and HPTLC, the product range also includes accessories.

Accessories for TLC

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
816710.01	Fluorescent indicators for TLC, UV254, green fluorescence	1x 100 g adsorbent in glass container	100 g	29319000	12%	13690
814018	TLC developing chamber for use with 2 simultaneous separations	10x10	1	90279090	18%	31490
814019	TLC developing chamber for use with 5 simultaneous separations	20 x 20	1	90279090	18%	69590
814021	Development chamber (jar shaped)	Up to 4x8 cm	4	90279090	18%	8690
814022	Glass capillaries, 1 µl	3x50 Glass capillaries, 1 µL	3	70179000	18%	16690
814023	Spotting guides	2x Spotting guides	2	90279090	18%	5890
814024	Measuring Cylinders (glass)	2x Measuring cylinders, glass	2	70179000	18%	5890
814030	Chromatography paper MN 260	7.5 x 17	100	48232000	18%	7690

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
814101	Laboratory reagent sprayer, glass with rubber bulb	1x		70179000	18%	27990
814102	Rubber caps for capillaries	2x Rubber caps	2	40091200	18%	3790
814103	Filter paper sheets MN 713	15 x 21 cm	100	48232000	18%	5890
814104	Plastic Syringe content: 1 mL, with graduation	1x Plastic syringe	1 Piece	90183110	18%	3790
818666	MN ALUGRAM scissors grounded blade, black handle	1x ALUGRAM scissors	1	82130000	12%	5490
TLCSB	TLC/Reagent Sprayer Bottle	1 Piece with Bottle	1	38220090	18%	2400

Vials and caps for analysis and for sample storage



Our portfolio contains autosampler vials and caps for HPLC and GC for all common instrument manufacturers, such as Waters, Agilent, Shimadzu and others. It is completed by lab accessories, like vial containers and racks or crimpers / decappers. Storage vials for liquid or powdery samples are available as well.

Crimp neck vials and caps N 20



Our autosampler vials are made from 1st hydrolytic class glass under strict hygienic conditions. Find your vial of interest by filtering our delivery program by parameters like volume, dimensions, material (clear / amber glass, plastic), vial type (screw, crimp, snap, etc.) and other selection criteria.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
70204.36	N20 HEADSPACE CRIMP NECK VIAL	5 ml	100	70179090	18%	4490
70205.36	N20 HEADSPACE CRIMP NECK VIAL	10 ml	100	70179090	18%	4790
70210.36	N20 HEADSPACE CRIMP NECK VIAL	25 ml	100	70179090	18%	9890
70208.36	N20 HEADSPACE CRIMP NECK VIAL	50 ml	100	70179090	18%	12490
70209.1	N 20 HEADSPACE CRIMP NECK VIAL	100 ml	60	70179090	18%	8190

Closures, caps and septa



Ready assembled or bonded closures with septa of high analytical purity are offered in different cap types (crimp / screw / snap) and sizes. You can choose between various liner materials with different physical and chemical properties.

Cat NO.	Type	Diameter MM	Pack size	HS code	GST	Price (₹)
702093	N 20 ALUMINIUM CRIMP CAP, SILVER CENTRE HOLE	N 20	100	83099090	18%	8090
702114	N 15 PP screw cap (bonded, 15-425), white, closed top Silicone white/PTFE blue	N 15	100	39235090	18%	4090

Sample filtration



CHROMAFIL filtration products avoid contamination of sensitive instrumentation and increase the lifetime of columns and equipment. We offer different membranes (e.g., PTFE, RC, nylon) in syringe filters, filter cartridges and filter 96well plates for rapid purification and removal of particles.

CHROMAFIL - Syringe filters



CHROMAFIL and CHROMAFIL Xtra syringe filters increase the lifetime of columns and equipment by removal of solid particles. Different membranes (e.g., PTFE, RC, nylon) and pore sizes are used for rapid purification of your samples.

CHROMAFIL Xtra PA membrane material : polyamide (Nylon)

- Moderately hydrophilic membrane
- For aqueous and organic / aqueous medium polar liquids
- PA filters with integrated glass fiber prefilter* (GF / PA) are recommended for solutions with a high load of particulate matter or for highly viscous solutions



Syringe filters, labeled, CHROMAFIL Xtra PA, Inside the syringe filter polyamide is used as membrane material. The rather hydrophilic PA membrane is suitable for filtration of medium polar organic-aqueous liquids.

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729212	PA-20/25	0.20 µm	25 mm	100	84212900	18%	17590
729213	PA-45/25	0.20 µm	25 mm	100	84212900	18%	17590
729249	PA-45/13	0.45 µm	13 mm	100	84212900	18%	17590

CHROMAFIL PA membrane material : polyamide (Nylon)

Syringe filters, color coded, CHROMAFIL PA, Inside the syringe filter polyamide is used as membrane material. The rather hydrophilic PA membrane is for filtration of medium polar organic-aqueous liquids.

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729010	AO-20/3	0.20 µm	3 mm	100	84212900	18%	21290
729012	AO-20/25	0.20 µm	25 mm	100	84212900	18%	17590
729049	AO-45/15 MS	0.45 µm	15 mm	100	84212900	18%	17590

CHROMAFIL Xtra PTFE membrane material: polytetrafluoroethylene

- Hydrophobic membrane
- For nonpolar liquids and gases
- Very resistant to all kinds of solvents as well as acids and bases; flushing with alcohol, followed by water, makes the originally hydrophobic membrane more hydrophilic
- PTFE filters with integrated glass fiber prefilter* (GF / PTFE) are recommended for solutions with a high load of particulate matter or for highly viscous solutions



Syringe filters, labeled, CHROMAFIL Xtra PTFE, Inside the syringe filter polytetrafluoroethylene is used as membrane material. The hydrophobic PTFE membrane is very resistant towards all kinds of solvents as well as acids and bases. Flushing with alcohol, followed by water, makes the originally hydrophobic membrane more hydrophilic.

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729205	PTFE-45/25	0.45 µm	25 mm	100	84212900	18%	17590
729207	PTFE-20/25	0.20 µm	25 mm	100	84212900	18%	17590

CHROMAFIL PTFE membrane material: polytetrafluoroethylene

Syringe filters, color coded, CHROMAFIL PTFE, Inside the syringe filter polytetrafluoroethylene is used as membrane material. The hydrophobic PTFE membrane is very resistant towards all kinds of solvents as well as acids and bases. Flushing with alcohol, followed by water, makes the originally hydrophobic membrane more hydrophilic.

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729007	O-20/25	0.20 µm	25 mm	100	84212900	18%	17590
729008	O-20/15 MS	0.20 µm	15 mm	100	84212900	18%	17590
729009	O-45/15 MS	0.45 µm	15 mm	100	84212900	18%	17590
729015	O-45/3	0.45 µm	3 mm	100	84212900	18%	21290

CHROMAFIL Xtra MV membrane material: cellulose mixed esters

Cellulose mixed ester (MV)

- Hydrophilic membrane with very low adsorption
- For aqueous or polar solutions



Syringe filters, labeled, CHROMAFIL Xtra MV, Inside the syringe filter a cellulose mixed ester is used as membrane material. The hydrophilic MV membrane is suitable for aqueous or polar solutions.

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729204	MV-45/25	0.45 µm	25 mm	100	84212900	18%	17590

CHROMAFIL Xtra PET membrane material: polyester



Syringe filters, color coded, CHROMAFIL PET, Inside the syringe filter polyester (polyethylene terephthalate) is used as membrane material. The hydrophilic multipurpose PET membrane is for polar as well as nonpolar solvents. It is the HPLC filter, especially suited for mixtures of water and organic solvents. It is not cytotoxic, does not inhibit the growth of microorganisms and higher cells. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729221	PET-20/25	0.20 µm	25 mm	100	84212900	18%	17590
729021.400	PET-20/25	0.20 µm	25 mm	400	84212980	12%	49090
729022	PET-20/15	0.20 µm	15 mm	100	84212900	18%	17590
729023	PET-45/15	0.45 µm	15 mm	100	84212900	18%	17590
729220	PET-45/25	0.45 µm	25 mm	100	84212900	18%	17590
729020	PET-45/25	0.45 µm	25 mm	100	84212900	18%	17590

CHROMAFIL Xtra CA membrane material: cellulose acetate

- Hydrophilic membrane
- For the filtration of water-soluble oligomers and polymers, especially suited for biological macromolecules
- Very high stability in aqueous solutions
- Binding capacity for proteins 21 µg per 25 mm filter
- Also available in a sterile package (S) for filtration under sterile conditions (each filter individually sealed)



Inside the syringe filter polyester (polyethylene terephthalate) is used as membrane material. The hydrophilic multipurpose PET membrane is suitable for polar as well as nonpolar solvents. It is the HPLC filter, especially suited for mixtures of water and organic solvents. It is not cytotoxic, does not inhibit the growth of microorganisms and higher cells. Labeled for method validation and certification. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729226	CA-20/25	0.20 µm	25 mm	100	84212900	18%	17590
729227	CA-45/25	0.45 µm	25 mm	100	84212900	18%	17590

CHROMAFIL Sterile filters CA membrane material: cellulose acetate

Syringe filters, sterile, CHROMAFIL CA, Inside the syringe filter cellulose acetate is used as membrane material. The hydrophilic CA membrane is suitable for filtration of water-soluble oligomers and polymers, especially suited for biological macromolecules with very high shape stability in aqueous solutions. Extremely low binding capacity for proteins. In a sterile package (S) for filtration under sterile conditions (each filter is color coded and individually sealed). All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729024	CA-20/25 (S)	0.20 µm	25 mm	50	84212900	18%	13690
729025	CA-45/25 (S)	0.45 µm	25 mm	50	84212900	18%	13690

CHROMAFIL Xtra PES membrane material: polyether sulfone

- Hydrophilic membrane
- For aqueous and slightly organic liquids with higher flow rates
- Very low adsorption for pharmaceuticals and proteins
- Good stability against organic acids and bases
- Binding capacity for proteins 29 µg per 25 mm filter



Syringe filters, CHROMAFIL Xtra PES, Inside the syringe filter polyethersulfone is used as membrane material. The hydrophilic PES membrane is suitable for aqueous and slightly organic liquids. This filter shows a good stability against acids and bases as well as a very low adsorption for pharmaceuticals and proteins. Labeled for method validation and certification. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729240	PES-20/25	0.20 µm	25 mm	100	84212900	18%	17590
729241	PES-45/25	0.45 µm	25 mm	100	84212900	18%	17590
729242	PES-500/25	5.0 µm	25 mm	100	84212900	18%	17590

CHROMAFIL Xtra GF membrane material: glass fibre

Glass fiber (GF)

- Inert filter, nominal pore size 1 µm, allows higher flow rates than small pore filters
- For solutions with high loads of particulate matter or for highly viscous solutions (e.g. soil samples, fermentation broths)
- As prefilters for other CHROMAFIL® filters, they prevent the clogging of the membrane
- High binding capacity for proteins



Syringe filters, color coded, CHROMAFIL GF, Inside the syringe filter a glass fiber is used as membrane material. The hydrophilic GF membrane is a inert filter for solutions with high loads of particulate matter or for highly viscous solutions (e.g., soil samples, fermentation broths). The nominal pore size of 1 µm allows higher flow rates than small pore filters. Membrane material is also used as prefilter for CHROMAFIL combi filters, they prevent plugging of the main membrane. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729028	GF-100/25	1 µm	25 mm	100	84212900	18%	17590
729228	GF-100/25	1 µm	25 mm	100	84212900	18%	17590

CHROMAFIL Xtra PVDF membrane material: polyvinylidene difluoride

Polyvinylidene difluoride (PVDF)

- Hydrophilic membrane
- For 100 % aqueous solutions, water-soluble oligomers and polymers like proteins
- Low binding capacity for proteins 20 µg per 25 mm filter
- PVDF filters with integrated glass fiber prefilter* (GF / PVDF) are recommended for the filtration of biological samples with high particle loads



Syringe filters, CHROMAFIL Xtra PVDF, Inside the syringe filter polyvinylidene difluoride is used as membrane material. The hydrophilic PVDF membrane is suitable for filtration of 100 % aqueous samples, water-soluble oligomers and polymers like proteins. Extremely low binding capacity for proteins. Labeled for method validation and certification. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729218	PVDF-20/25	0.20 µm	25 mm	100	84212900	18%	17590
729219	PVDF-45/25	0.45 µm	25 mm	100	84212900	18%	17590
729244	PVDF-45/13	0.45 µm	13 mm	100	84212900	18%	17590

CHROMAFIL PVDF membrane material: glass fibre/polyvinylidene difluoride

Syringe filters (combi), CHROMAFIL GF / PVDF, Combi syringe filters are recommended for solutions with a high load of particulate matter or for highly viscous solutions. These products combine a coarse glass fiber prefilter and a small-pore polyvinylidene difluoride membrane as main filter. The hydrophilic PVDF membrane is for 100 % aqueous samples, water-soluble oligomers and polymers like proteins. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729039	GF/PVDF-45/25	1.0/0.45 µm	25 mm	100	84212900	18%	22090

CHROMAFIL Xtra RC membrane material: regenerated cellulose

- Hydrophilic membrane with very low adsorption
- For aqueous and organic / aqueous liquids, i.e. polar and medium polar sample solutions
- Binding capacity for proteins 84 µg per 25 mm filter
- RC filters with integrated glass fiber prefilter* (GF / RC) are recommended for solutions with a high load of particulate matter or for highly viscous solutions



Syringe filters, CHROMAFIL Xtra RC, Inside the syringe filter a regenerated cellulose is used as membrane material. The hydrophilic RC membrane is suitable for aqueous and organic – aqueous liquids, i.e. polar and medium polar sample solutions and shows a low binding capacity for proteins. Labeled for method validation and certification. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729230	RC-20/25	0.20 µm	25 mm	100	84212900	18%	20090
729231	RC-45/25	0.45 µm	25 mm	100	84212900	18%	20090

CHROMAFIL RC membrane material: regenerated cellulose

Syringe filters, color coded, CHROMAFIL RC, Inside the syringe filter a regenerated cellulose is used as membrane material. The hydrophilic RC membrane is suitable for aqueous and organic – aqueous liquids, i.e. polar and medium polar sample solutions and shows a low binding capacity for proteins. All CHROMAFIL filters are autoclavable (121 °C and 1.1 bar for 30 min)!

Cat NO.	Type	Pore size	Membrane	Pack size	HS code	GST	Price (₹)
729031	RC-45/25	0.45 µm	25 mm	100	84212900	18%	20090
729236	RC-20/13	0.20 µm	13 mm	100	84212900	18%	20090

Rapid Tests



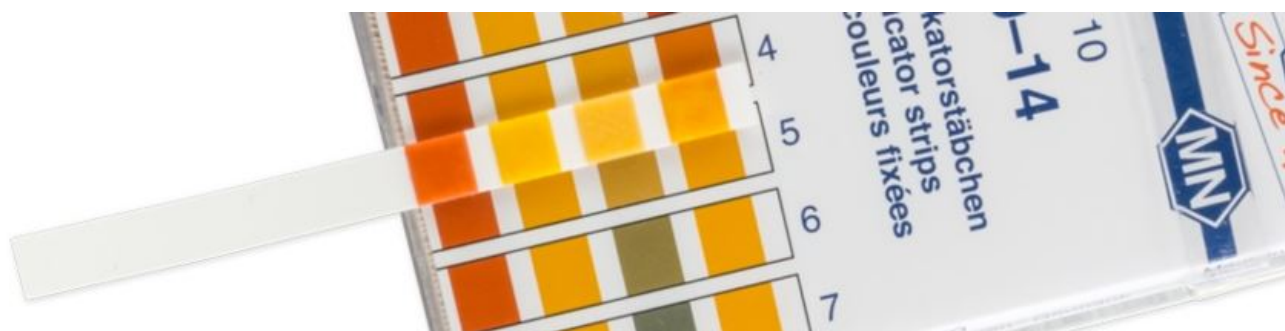
Our test papers allow identification or semi-quantitative determination of more than 40 different substances. They give rapid results and are easy to use for an accurate on-site analysis.

pH-tests



For many years untrained users as well as analytical professionals appreciate the experience of easy pH testing with pHIFix. In contrast to common indicator papers, the indicator dyes in pHIFix test strips are chemically bound to the test pads. This patented technology prevents bleeding of the dyes and therefore a contamination of the sample, even in highly alkaline solutions. The fixation enables the strips to remain in solution over extended periods of time allowing a safe pH determination even in weakly buffered solutions.

pH indicator papers- (non-bleeding)



According to a comparative study, our MACHEREY-NAGEL pH-Fix 0-14 test strips performed as the best! In various tests our strips delivered the most reliable pH values and the best marks in usability compared to the competitor product.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
92110	pH test strips	pH - 0-14	100 strips	38220090	12%	2490
92115	pH test strips	pH - 0-6	100 sticks	38220090	12%	2490
92118	pH test strips	pH - 2.0-9.0	100 sticks	38220090	12%	2490

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
92120	pH test strips	pH - 4.5-10.0	100 sticks	38220090	12%	2490
92122	pH test strips	pH - 6.0-10.0	100 sticks	38220090	12%	2490
92125	pH test strips	pH - 7.0-14.0	100 sticks	38220090	12%	2490
92130	pH test strips	pH - 3.6-6.1	100 sticks	38220090	12%	2490
92135	pH test strips	pH - 3.1-8.3	100 sticks	38220090	12%	2490
92140	pH test strips	pH - 5.1-7.2	100 sticks	38220090	12%	2490
92150	pH test strips	pH - 6.0-7.7	100 sticks	38220090	12%	2490
92160	pH test strips	pH - 7.5-9.5	100 sticks	38220090	12%	2490
92170	pH test strips	pH - 7.9-9.8	100 sticks	38220090	12%	2490
92180	pH test strips	pH - 0.3-2.3	100 sticks	38220090	12%	2490
92190	pH test strips	pH - 1.7-3.8	100 sticks	38220090	12%	2490

pH indicator papers- (non-bleeding) with plop top tube



pH-Fix strips with chemically bound indicators are the bench mark for pH testing with test strips. The fixation prevents bleeding and therefore contamination of the sample.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
92111	pH-Fix PT	pH - 0-14	100 sticks	38220090	12%	2490
92121	pH-Fix PT	pH - 4.5-10.0	100 sticks	38220090	12%	2490
92131	pH-Fix PT	pH - 3.6-6.1 PT	100 sticks	38220090	12%	2490

PEHANON - pH measurement in colored samples



PEHANON test strips unify pH indicator and reference color chart in one strip. Any sample color has the same effect on both, the reference colors and the reactive pad, allowing unadulterated pH reading even in colored solutions.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90401	PEHANON 1-12	pH 1-12	200 strips	38220090	12%	3290
90411	PEHANON 0-1.8	pH 0 - 1.8	200 strips	38220090	12%	2890
90412	PEHANON 1-2.8	pH 1 - 2.8	200 strips	38220090	12%	2890
90413	PEHANON 1.8-3.8	pH 1.8 - 3.8	200 strips	38220090	12%	2890
90414	PEHANON 2.8-4.6	pH 2.8 - 4.6	200 strips	38220090	12%	2890
90415	PEHANON 3.8-5.5	pH 3.8 - 5.5	200 strips	38220090	12%	2890
90416	PEHANON 5.2-6.8	pH 5.2 - 6.8	200 strips	38220090	12%	2890
90417	PEHANON 6-8.1	pH 6.0 - 8.1	200 strips	38220090	12%	2890
90419	PEHANON 7.2-8.8	pH 7.2 - 8.8	200 strips	38220090	12%	2890
90420	PEHANON 8-9.7	pH 8.0 - 9.7	200 strips	38220090	12%	2890
90421	PEHANON 9.5-12	pH 9.5 - 12.0	200 strips	38220090	12%	2890
90422	PEHANON 10.5-13	pH 10.5 - 13.0	200 strips	38220090	12%	2890
90423	PEHANON 12-14	pH 12.0 - 14.0	200 strips	38220090	12%	2890
90424	PEHANON 4-9	pH 4.0 - 9.0	200 strips	38220090	12%	2890

Universal indicator papers



pH indicator papers have been available for decades and are the standard for many applications. For each pH value these papers show a single color which can be matched with the color scale at intervals of 0.2–1 pH units. The indicator papers come in plastic reels that ensure long-term stability and protection against many external influences. They will be always ready-to-use when needed. MACHEREY NAGEL also controls the production of the raw papers which ensures – in combination with our ISO 9001 QC system – the high quality of the indicator papers. The colors of the scales are specially mixed to perfectly match the reaction color of the indicator papers. This makes the reading of results easy and accurate.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90201	Universal indicator paper	pH 1-11 reel	5m length x 7mm width	38220090	12%	2090
90202	Universal indicator paper	pH 1-11 reels	refill pack of 3 reels	38220090	12%	3190
90203	Universal indicator paper	pH 1-11 booklet	100 strips 10x70mm	38220090	12%	1890
90204	Universal indicator paper	pH 1-14 reel	5m length x 7mm width	38220090	12%	2090
90205	Universal indicator paper	pH 0.5–5.5 reel	5m length x 7mm width	38220090	12%	2090
90206	Universal indicator paper	pH 3.8–5.8 reel	5m length x 7mm width	38220090	12%	2090
90209	Special indicator paper	pH 5.5–9.0 reel	5m length x 7mm width	38220090	12%	2090
90213	Special indicator paper	pH 9.0–13.0 reel	5m length x 7mm width	38220090	12%	2090
90214	Special indicator paper	pH 12.0–14.0 reel	5m length x 7mm width	38220090	12%	2090

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90224	Universal indicator paper	pH 1-14 reels	refill pack of 3 reels	38220090	12%	3190
90225	Special indicator paper	pH 0.5–5.5 reels	refill pack of 3 reels	38220090	12%	3190
90226	Special indicator paper	pH 3.8–5.8 reels	refill pack of 3 reels	38220090	12%	3190
90230	Special indicator paper	pH 6.4–8.0 reels	refill pack of 3 reels	38220090	12%	3190

Duotest and Tritest – pH papers with multiple indicators



pH papers with multiple indicator zones By the combination of several indicators on one test paper, a better recognition between different pH values is achieved. This makes the correct pH reading easier. Duotest – two indicator zones for higher accuracy Duotest indicator papers combine two different indicator zones on a single strip. The zones are separated by a hydrophobic barrier, which effectively prevents mixing of the reaction colors and increases the mechanical stability. Tritest – three indicator zones for highest precision Tritest indicator paper has three different indicator zones on a single paper. The three zones guarantee optimal color differences and safe determination of in-between values. Tritest indicator paper is available for a pH range from 1–11 and feature 1 pH unit increments. In Tritest L indicator paper, two hydrophobic barriers separate the indicator zones. Even in strongly alkaline solutions, the colors of the zones do not mix.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90301	Duotest	pH 1–12 with two indicator zones, reel	5m length x 10mm width	38220090	12%	2490
90304	Duotest	pH 5.0–8.0 with two indicator zones, reel	5m length x 10mm width	38220090	12%	2490
90305	Duotest	pH 7.0–10.0 with two indicator zones, reel	5m length x 10mm width	38220090	12%	2490
90306	Duotest	pH 9.5–14.0, with two indicator zones reel	5m length x 10mm width	38220090	12%	2490
90311	Duotest	pH 1–12 with two indicator zones, reel	refill pack 5m length x 7mm width	38220090	12%	5390

Other pH indicators – Without color chart and solutions



Qualitative pH papers without color chart are simple, completely impregnated indicator papers. Unisol indicator solutions are used for pH determination in pure water, surface waters and very dilute acids or bases.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90701	Brilliant yellow paper	pH - 6.7–7.9	200	38220090	12%	4090

Qualitative test papers

Simple test papers for qualitative determinations

These test papers come without a color scale. With little effort, the presence of ions and other substances can be detected. The test papers change color when the concentration is above the specified limit of detection.

Test papers for criminal investigations

Peroxtesmo KM is sensitive to peroxidase and detects blood traces.

Sperm traces can be detected using Phosphatesmo KM which is specific for acidic phosphatase. Both test papers are used in the investigation of crime scenes.

Test papers for milk analysis

The test paper Peroxtesmo MI allows the easy distinction between raw milk and high temperature milk. It is sensitive for the enzyme lactoperoxidase. In contrast to liquid indicators based on guaiacol, Peroxtesmo MI does not smell and comes without hazardous reagents which is convenient and safe for the user.

Phosphatesmo MI detects alkaline phosphatase in milk and is a rapid and easy indicator for the successful pasteurization of milk.

Test papers for oil and oil tanks

Oil test paper is recommended for the rapid determination of oil contaminations in water and soil. On contact with oil the paper turns dark blue.

AQUATEC allows the easy and reliable detection of water at the bottom of petrol and fuel oil tanks. It is also suitable to measure the thickness of water layers in oil separators.



Qualitative test papers come without a color scale. With little effort, the presence of ions and other substances can be detected. The test papers change their color when the concentration is above the specified limit of detection.

Qualitative test papers - Without color chart



Simple test papers for qualitative determinations. These test papers come without a color scale. With little effort, the presence of ions and other substances can be detected. The test papers change color when the concentration is above the specified limit of detection. Test papers for criminal investigations: Peroxtesmo KM is sensitive to peroxidase and detects blood traces. Spermatismo KM which is specific for acidic phosphatase. Both test papers are used in the investigation of crime scenes. Test papers for milk analysis: The test paper Peroxtesmo MI allows the easy distinction between raw milk and high temperature milk. It is sensitive for the enzyme lactoperoxidase. In contrast to liquid indicators based on guaiacol, Peroxtesmo MI does not smell and comes without hazardous reagents which is convenient and safe for the user. Phosphatesmo MI detects alkaline phosphatase in milk and is a rapid and easy indicator for the successful pasteurization of milk. Test papers for oil and oil tanks: Oil test paper is recommended for the rapid determination of oil contaminations in water and soil. On contact with oil the paper turns dark blue. AQUATEC allows the easy and reliable detection of water at the bottom of petrol and fuel oil tanks. It is also suitable to measure the thickness of water layers in oil separators.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90601	Cuprotesmo sheets	Copper - 0.05µg Cu on surfaces	40 sheets 40x25mm	38220090	12%	8890
90602	Plumbtesmo sheets	Lead - 5 mg/L Pb ²⁺	40 sheets 40x25mm	38220090	12%	10590
90603	Chlortesmo test strips	Chlorine - 1 mg/L Cl ₂	200 strips 20x70mm	38220090	12%	8890
90604	Cyantesmo test paper	Cyanide - 0.2 mg/L HCN	5m length, 10mm wide	38220090	12%	8890
90605	Peroxtesmo KM sheets	Blood - Traces of blood (peroxidase)	25 test 15x30mm	38220090	12%	21490
90606	Peroxtesmo KO sheets	Peroxidase - Peroxidase traces	100 test 15x15mm	38220090	12%	14290
90607	Phosphatesmo KM sheets	Sperm - Traces of sperm (acid phosphatase)	25 test 15x30mm	38220090	12%	21490
90608	Saltesmo (halide ions)	Halides - 0 • 0.25 • 0.5 • 1 • 2 • 3 • 4 • 5 g/L NaCl	30 test discs	38220090	12%	13290
90609	Watesmo test paper reel	Water in organic solutions	reel of 5m length, 10mm wide	38220090	12%	7290

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90610	Water sheets	Water - Traces of water	50 sheets 78x40mm	38220090	12%	8290
90611	Nitratesmo test paper	Nitrate and nitrite (NO ₃ ⁻ , NO ₂ ⁻)	reel 5m length, 10 mm width	38220090	12%	9890
90627	Peroxtesmo MI sheets	Peroxidase in milk	100 test 15x15 mm	38220090	12%	4890
90721	Aluminum/Zirconium test paper	Aluminum-10mg/L Al ³⁺ , Zirconium-20mg/L Zr ⁴⁺	100 strips 20x70mm	38220090	12%	5290
90722	Ammonium test paper	Ammonium - 10 mg/L NH ₄ ⁺	200 strips 20x70mm	38220090	12%	8790
90726	Iron test paper	10 mg/L Fe ²⁺ or Fe ³⁺	100 sticks 20x70mm	38220090	12%	5290
90727	Potassium test paper	250 mg/L K ⁺	200 strips 20x70mm	38220090	12%	8790
90730	Nickel test paper	10 mg/L Ni ²⁺	200 strips 20x70mm	38220090	12%	7190
90732	Silver test paper	20 mg/L Ag ⁺	200 strips 20x70mm	38220090	12%	7190
90734	Fluoride Test	0 - 100 mg/L F ⁻	30 Test(s)	38220090	12%	13190
90744	Lead acetate paper for Sulfide	5 mg/L S ²⁻	reel of 5m length, 7mm width	38220090	12%	2390
90745	Lead acetate paper	5 mg/L S ²⁻	refill pack 3 Piece(s)	38220090	12%	2690
90746	Lead acetate paper	5 mg/L S ²⁻	100 sticks 10x75mm	38220090	12%	1290
90747	Turmeric paper for Boric acid	100 mg/L HIBOI	200 strips 20x70mm	38220090	12%	4190
90748	Udder test paper for Mastitis	Mastitis	20 Test 140x90mm	38220090	12%	POR
90750	Fluoride test paper	20 mg/L F ⁻	200 strips 20x70mm	38220090	12%	7290
90751	Indanthrene yellow paper for Vat dyes		200 strips 20x70mm	38220090	12%	4190
90753	Potassium iodate starch paper	5 mg/L SOI	reel of 5m length, 7mm width	38220090	12%	2590

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
90756	Potassium iodide starch paper MN816N	Free chlorine- 1mg/L Cl ₂ , Nitrite-1mg/L NO ₂ ⁻	100 sticks 10x75mm	38220090	12%	1590
90758	Potassium iodide starch paper MN616T	Free chlorine-1mg/L Cl ₂ , Nitrite-1mg/L NO ₂ ⁻	200 strips 20x70mm	38220090	12%	4190
90760	Oil test paper		100 strips 20x70mm	38220090	12%	6890
90762	Arsenic (mercury bromide)	0.5 µg arsenic	200 strips 20x70mm	38220090	12%	7190
90763	Sulfite test paper	10 mg/L NaISOI	100 strips 20x70mm	38220090	12%	7190
90765	INDIPRO for Protein	50 µg BSA	60 test 10x85mm	38220090	12%	17290

Semi - quantitative test strips



Test papers and test strips for semi quantitative analysis are extremely simple to handle. They are based on the principle of “Dip & Read”. They are available for a variety of parameters and comply with all requirements of a modern rapid test. The evaluation of these tests is carried out by a comparison with a color scale.

QUANTOFIX®



QUANTOFIX test strips meet all requirements of a modern rapid test. The reactive pad's color changes depending on concentration of an analyte. Evaluation is usually carried out visually by a comparison of reaction color with a multistage color scale. Some strips can be evaluated automatically on QUANTOFIX Relax reflectometer.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
91301	CHEOMATE	3–100 mg/L CrO_4^{2-}	6x95mm for 100 test	38220090	12%	6790
91303	COBALT	0-1000 mg/L Co^{2+}	6x95mm for 100 test	38220090	12%	6290
91304	COPPER	10–300 mg/L Cu^{+2+}	6x95mm for 100 test	38220090	12%	4490
91305	NICKEL	0-1000 mg/L Ni^{2+}	6x95mm for 100 test	38220090	12%	5290
91306	SULPHITE	0-1000 mg/L SO_3^{2-}	6x95mm for 100 test	38220090	12%	5290

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
91307	ALUMINIUM	0-500 mg/L Al ³⁺	6x95mm for 100 test	38220090	12%	8690
91309	TIN/100	0-500 mg/L Sn ²⁺	6x95mm for 100 test	38220090	12%	7690
91310	ZINC/100	0-100 mg/L Zn ²⁺	6x95mm for 100 test	38220090	12%	7990
91311	NITRITE	0-80 mg/L NOI ⁻	6x95mm for 100 test	38220090	12%	5290
91312	Peroxide 100	1-100 mg/L HIOI	6x95mm for 100 test	38220090	12%	3390
91313	NITRATE/NITRITE	Nitrate - 10-500 mg/L NOI ⁻	6x95mm for 100 test	38220090	12%	5490
91314	ASCORBIC ACID	0-2000 mg/L Vitamin-C	6x95mm for 100 test	38220090	12%	5890
91315	AMMONIUM	0-400 mg/L NH ⁴⁺	6x95mm for 100 test	38220090	12%	8890
91316	POTASSIUM	0-1500 mg/L K ⁺	6x95mm for 100 test	38220090	12%	8490
91317	Chlorine	0-100 mg/L Cl ²	6x95mm for 100 test	38220090	12%	10590
91318	Cyanide	0-30 mg/L CN ⁻	6x95mm for 100 test	38220090	12%	10590
91319	Peroxide 25	0-25 mg/L HIOI	6x95mm for 100 test	38220090	12%	3390
91320	Phosphate	0-100 mg/L POI ³⁻	6x95mm for 100 test	38220090	12%	7990
91321	Chloride	0 - ≥ 3000 mg/L Cl ⁻	6x95mm for 100 test	38220090	12%	6390
91322	Nitrite 3000	0 - 3 g/L NOI ⁻	6x95mm for 100 test	38220090	12%	5290
91323	CARBONATE ALKALINITY	0 - 25.0 °e	6x95mm for 100 test	38220090	12%	5390
91324	CALCIUM/ 60	0 - 100 mg/L Ca ²⁺	6x95mm for 100 test	38220090	12%	10690
91325	MOLYBDATE	0 - 250 mg/L Mo ⁶⁺	6x95mm for 100 test	38220090	12%	11890
91326	Multistick for Aquarium	Carbonate - 0-25.0 °e, pH - 6.4-8.4	6x95mm for 100 test	38220090	12%	7590
91327	MULTISTICK FOR AQUARIANER/25	Carbonate hardness - 0-25 °e, pH-6.4-8.4	6x95mm for 100 test	38220090	12%	3790

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
91328	FORMALDEHYDE	0-200 mg/L HCHO	6x95mm for 100 test	38220090	12%	9290
91329	Sulfate	< 200 -> 1600 mg/L SOI ²⁻	6x95mm for 100 test	38220090	12%	5590
91330	TOTAL IRON 1000	0-1000 mg/L Fe ²⁺ /Fe ³⁺	6x95mm for 100 test	38220090	12%	4590
91332	ARSENIC 50	0 - 3.0 mg/L As ³⁺ 5+	6x95mm for 100 test	38220090	12%	12390
91333	Peroxide 1000	0 • 1000 mg/L HIOI	6x95mm for 100 test	38220090	12%	5090
91334	ARSENIC 10	0 • 0.5 mg/L As ³⁺ 5+	6x95mm for 100 test	38220090	12%	12690
91335	EDTA	0 • 400 mg/L EDTA	6x95mm for 100 test	38220090	12%	5290
91336	LUBRICHECK	0 200 mmol/L KOH	6x95mm for 100 test	38220090	12%	6190
91337	QUAT	0 • 1000 mg/L	6x95mm for 100 test	38220090	12%	5090
91338	NITRIT/PH	Nitrite - 0 • 80 mg/L NOI ⁻ , pH - 6.0 • 9.6	6x95mm for 100 test	38220090	12%	6590
91339	Chlorine Sensitive	0.1–10 mg/L ClI	6x95mm for 100 test	38220090	12%	5090
91340	Peracetic acid 50	0-50 mg/L	6x95mm for 100 test	38220090	12%	6390
91341	Peracetic acid 500	0-500 mg/L	6x95mm for 100 test	38220090	12%	6390
91342	Peracetic acid 2000	0-2000 mg/L	6x95mm for 100 test	38220090	12%	6890
91343	GLUTARALDEHYDE	0-2.5 % Glutaraldehyde	6x95mm for 100 test	38220090	12%	7290
91344	TOTAL IRON 100	0-100 mg/L Fe ²⁺ 3+	6x95mm for 100 test	38220090	12%	4590
91345	ARSENIC SENSITIVE	0 - 0.5 mg/L As ³⁺ 5+	6x95mm for 100 test	38220090	12%	28590
91348	Glucose	0 -2000 mg/L Glucose	6x95mm for 100 test	38220090	12%	5290
91349	Active oxygen	0 • 4 • 8 • 15 • 25 mg/L KMPS	6x95mm for 100 test	38220090	12%	6190
91357	Chlorine dioxide 3000	0 - 3000 mg/L ClOI	6x95mm for 100 test	38220090	12%	5090

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
913918	Nitrate	0 - 500 mg/L NOI ⁻	3 pack of 50 sets	38220090	12%	14990
91351	Nitrate 100	Nitrate-3–100mg/L NOI ⁻ , Nitrite-0.5–50mg/L NOI ⁻	6x95mm for 100 test	38220090	12%	6390
91361	Total Chlorine Sensitive 1	0 • 0.01 • 0.05 • 0.1 • 0.2 • 0.4 • 0.8 mg/L Cl ⁻	50 Test(s)	38220090	12%	2790

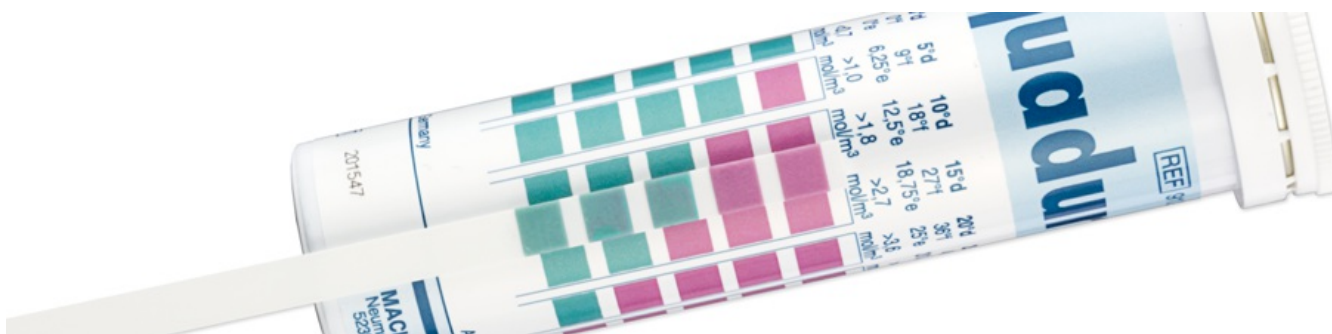
Test strip reader – QUANTOFIX Relax



The QUANTOFIX Relax is the ideal device for the objective evaluation of our QUANTOFIX and pH-Fix test strips. It combines the simplicity of test strips with the safety of instrumental analysis and thus the best out of these two worlds. The QUANTOFIX Relax does not require any special strips, but evaluates the normal pHFix and QUANTOFIX test strips. Therefore entrance into instrumental analysis is very simple; the same strip can be used for visual and instrumental evaluation.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
91346	QUANTOFIX Relax,		1 Piece(s)	90273000	18%	92999

AQUADUR®



AQUADUR test strips are made for the easy determination of water hardness allowing to optimize the dosing of water softeners. Other specialized semiquantitative test strips for certain applications are also listed here

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
91201	AQUADUR® 5–25,	< 54 > 90 > 180 > 270 > 360 > 450 ppm CaCO ₃	100 sticks 6x85mm	38220090	12%	3790
91220	AQUADUR® 4–21,	< 54 • > 72 • > 126 • > 252 • > 378 ppm CaCO ₃	100 sticks 6x85mm	38220090	12%	3790
91221	AQUADUR® 5–25, bulk	< 54 • > 90 • > 180 • > 270 • > 360 • > 450 ppm CaCO ₃	5000 sticks without scale	38220090	12%	78090
91222	AQUADUR® 4–21, bulk	< 54 • > 72 • > 126 • > 252 • > 378 ppm CaCO ₃	5000 sticks without scale	38220090	12%	78090
91223	AQUADUR® 5–25,	< 54 • > 90 • > 180 • > 270 • > 360 • > 450 ppm CaCO ₃	1000 sticks individually sealed	38220090	12%	41390
91224	AQUADUR® 4–21, bulk	< 54 • > 72 • > 126 • > 252 • > 378 ppm CaCO ₃	1000 sticks individually sealed	38220090	12%	41390
91239	AQUADUR® 4–14,	< 54 • > 72 • > 151.2 • > 252 ppm CaCO ₃	100 sticks 6x85mm	38220090	12%	5190
91240	AQUADUR® 4–21,	< 54 • > 72 • > 151.2 • > 252 • > 378 ppm CaCO ₃	1000 sticks individually sealed	38220090	12%	41390
912902	AQUADUR® 5–25,	< 54 • > 90 • > 180 • > 270 • > 360 • > 450 ppm CaCO ₃	set of 3 individually sealed pack of 50 sets	38220090	12%	14490
90709	Chlorine Test, reel	Chlorine - 10 - 200 mg/L Cl ₂	5 m length and 10 mm width	38220090	12%	2090
90714	Ammonia Test	0 • 0.5 • 1 • 3 • 6 mg/L NH ₄ ⁺	25 test strips in a tube	38220090	12%	3790
90736	Ozone Test	< 90 • 90–150 • 150– 210 • > 210 µg/m ³ O ₃	12 Test(s)	38220090	12%	3490
90741	Ag-Fix for silver in fixing baths	pH - 4 • 8, Silver - 0 • 10 g/L Ag ⁺	100 Test(s)	38220090	12%	5290
90759	Swimming pool test 5 in 1		50 Test(s)	38220090	12%	5090

Water Analysis



All of our tests can be found listed by parameters in the first part of the catalog. So you can directly find the correct test for your needs. In the second part of the catalog we have compiled additional details for each individual test and equipment for you. We are a successful manufacturer of water analysis- and rapid tests for more than 60 years. A continuous development has always been important to us to meet your today's and future needs. If you have further questions or need additional advice, you can contact us at any time. Our friendly team of experts in Dueren and our competent sales team are very happy to be at your service.

Visual test kits - Colorimetric and titrimetric test kits



Visual test kits can be evaluated by eye, without further equipment. They are divided into colorimetric test kits, which are compared to a color chart, and titrimetric test kits, where the amount of used reagent is related to the measured value. Some tests are also suitable for photometric evaluation.

VISOCOLOR HE



VISOCOLOR HE test kits are highly sensitive colorimetric and titrimetric tests to determine even the lowest limiting values. The exact dosing of the single reagents as well as the compensation of turbidity and color are the basis for a highly precise analysis. Maximum sensitivity and accuracy are achieved by the use of longer measuring tubes and larger sample volumes. The sensitivity of VISOCOLOR HE is 10 to 100 times higher compared to other VISOCOLOR tests. The visual evaluation of the colorimetric test kits is done with high-quality color comparison disks, which are adjusted to the original color of standard solutions. Refill packs are available as replacement for consumed reagents. Every VISOCOLOR HE test kit is delivered in a robust box with plastic inlay and an easy to understand instruction leaflet.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
915004	Chloride CL 500 Titrimetric test kit	5–500 mg/L Cl ⁻	300	38220090	12%	12290
915005	Total Hardness H 20 F titration test kit	0.6-25.0 °e / 0.1-3.6 mmol/L Ca ²⁺	200	38220090	12%	9890
915006	Acidity AC 7 titration test kit	0.2-7.0 mmol/L H ⁺	200	38220090	12%	9890
915007	Alkalinity AL 7 titration test kit	0.2-7.2 mmol/L OH ⁻	200	38220090	12%	9890

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
915009	Oxygen SA 10 titration test kit	0.2-10 mg/L O ₂	100	38220090	12%	16590
915010	Calcium CA 20 titration test kit	0.6-25.0 °e / 0.1-3.6 mmol/L Ca ²⁺	200	38220090	12%	9890
915205	Total Hardness H 20 F titration test kit - refill pack	0.6-25.0 °e / 0.1-3.6 mmol/L Ca ²⁺	200	38220090	12%	6690
915210	Calcium CA 20 titration test kit - refill	0.6-25.0 °e / 0.1-3.6 mmol/L Ca ²⁺	200	38220090	12%	6690
920028	Cyanide highly sensitive test kit	0.002-0.040 mg/L CN	50	38220090	12%	17690
920087	Silicon highly sensitive test kit	0.01-0.30 mg/L Si	120	38220090	12%	17990
920187	Silicon highly sensitive test kit - refill pack	0.01-0.30 mg/L Si	120	38220090	12%	11690
920015	Chlorine, for low concentrations	0.0 - 0.60 mg/L Cl ₂	160	38220090	12%	17990

VISOCOLOR ALPHA



VISOCOLOR alpha is the most simple version of colorimetric and titrimetric test kits. These tests are suitable for visual evaluation only and are very convenient in performance, because of multicomponent reagents. Therefore, test kits are limited in precision and accuracy but represent an inexpensive method for screening tests.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
935065	VISOCOLOR alpha Nitrate	2 • 8 • 15 • 30 • 50 mg/L NO ₃ ⁻	100	38220090	12%	POR
935066	VISOCOLOR alpha Nitrite	0.05 • 0.10 • 0.25 • 0.5 • 1.0 mg/L NO ₂ ⁻	200	38220090	12%	POR
935079	VISOCOLOR alpha Phosphate	2 • 5 • 10 • 15 • 20 mg/L PO ₄ ³⁻	70	38220090	12%	POR

VISOCOLOR ECO



VISOCOLOR ECO presents a product group of colorimetric and titrimetric test kits, which allow even the determination of low limiting values with sufficient accuracy. The high sensitivity and accuracy is accomplished by single reagents which can be dosed precisely and by the possibility to compensate turbidity and color of water samples. The results are evaluated visually with high-quality color comparison cards, which are adjusted to the original colors of standard solutions. In addition, there is the possibility to evaluate most VISOCOLOR ECO tests also photometrically with the compact photometers PF-3 and PF-12Plus. This enables a quantitative evaluation of the test kit. Budget-priced refill packs are available for photometric evaluation as well as for replacement of consumed chemicals. All VISOCOLOR ECO test kits are delivered in a practical cardboard box with plastic inlay and easy to understand instruction manual. In addition, practical pictogram instructions are available for every test kit.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
931221	Chlorine dioxide colorimetric test kit - refill pack	0.2-3.8 mg/L ClO ₂	150	38220090	12%	9790
931225	Iron 1 colorimetric test kit - refill pack	0.04-1.0 mg/L Fe	200	38220090	12%	9790
931238	Manganese colorimetric test kit - refill pack	0.1-1.5 mg/L Mn	70	38220090	12%	8590
931241	Nitrate colorimetric test kit - refill pack	1-120 mg/L NO ₃	110	38220090	12%	4590
931292	Sulfate colorimetric test kit - refill pack	25-200 mg/L SO ₄ ²⁻	100	38220090	12%	7190
931298	Zinc colorimetric test kit - refill pack	0.5-3 mg/L Zn ²⁺	120	38220090	12%	7690
931010	Ammonium 15, Colorimetric test kit	0.5–8.0 mg/L NH ₄ ⁺	50	38220090	12%	11090
931016	Chlorine 2 free colorimetric test kit	0.10–2.00 mg/L Cl ₂	150	38220090	12%	9790
931018	Chloride Colorimetric test kit	1–50 mg/L Cl ⁻	90	38220090	12%	11190
931020	Chromium (VI) Colorimetric test kit	0.02–0.50 mg/L Cr(VI)	140	38220090	12%	11390

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
931022	Cyanide Colorimetric test kit	0.01–0.20 mg/L CN ⁻	100	38220090	12%	12990
931025	Iron 1 Colorimetric test kit	0.04–2.00 mg/L Fe	200	38220090	12%	12390
931029	Total hardness Titrimetric test kit	1 drop corresponds to 1.25 °e	110	38220090	12%	8890
931030	Hydrazine Colorimetric test kit	0.05–0.40 mg/L NIHI	130	38220090	12%	14490
931032	Potassium Colorimetric test kit	2–25 mg/L K ⁺	60	38220090	12%	19390
931033	Silica Colorimetric test kit	0.2–3.0 mg/L SiOI	80	38220090	12%	11590
931037	Copper Colorimetric test kit	0.1–5.0 mg/L Cu ²⁺	100	38220090	12%	10890
931038	Manganese Colorimetric test kit	0.1–5.0 mg/L Mn	70	38220090	12%	11990
931040	Nickel Colorimetric test kit	0.04–5.00 mg/L Ni ²⁺	150	38220090	12%	14590
931041	Nitrate Colorimetric test kit	4–60 mg/L NOI ⁻	110	38220090	12%	9390
931044	Nitrite Colorimetric test kit	0.02–0.50 mg/L NOI ⁻	120	38220090	12%	9590
931088	Oxygen Colorimetric test kit	1–8 mg/L OI	50	38220090	12%	11890
931092	Sulfate Colorimetric test kit	20–200 mg/L SOI ²⁻	100	38220090	12%	13690
931094	Sulfide Colorimetric test kit	0.05–0.80 mg/L S ²⁻	90	38220090	12%	11690
931095	Sulfite Titrimetric test kit	1 drop corresponds to 1 mg/L SOI ²⁻	60	38220090	12%	9590
931098	Zinc Colorimetric test kit	0.1–3.0 mg/L Zn ²⁺	120	38220090	12%	11390
931218	Chloride Colorimetric test kit, refill pack	1–50 mg/L Cl ⁻	90	38220090	12%	7690
931219	Free chlorine 6 Colorimetric test kit, refill pack	0.05–6.00 mg/L ClI	400	38220090	12%	9390
931929	Additive reagent Z-1		30 mL	38220090	12%	3190

VISOCOLOR accessories



VISOCOLOR test kits from MACHEREYINAGEL are ideally suited for the fast and easy water analysis. Besides the test kits, MACHEREYINAGEL offers a broad range of accessories for VISOCOLOR tests.

Cat NO.	Test	Measuring Range	Pack size	HS code	GST	Price (₹)
915405	Titration syringe for VISOCOLOR HE Total Hardness H2O F		1 syringe	90183190	12%	2390