










Filtration for petrochemical analysis



Distributor
GE Healthcare

Filtration for petrochemical analysis

What are you testing for?	Product	Characteristics and benefits
Analysis of water used in drilling	Whatman™ ME 25 	<ul style="list-style-type: none">• Excellent contrast for easier particle detection• Grids are nontoxic and do not inhibit bacterial growth, ensuring sample integrity• The membrane offers a high degree of internal surface area for greater adsorption of product• Higher dirt loading capacity• Biologically inert with good thermal stability• No surfactants to contaminate samples• Uniform microporous structure of membrane gives high flow rates
Asphaltene test	Whatman ME 24 	<ul style="list-style-type: none">• Excellent contrast for easier particle detection• Grids are nontoxic and do not inhibit bacterial growth, ensuring sample integrity• The membrane offers a high degree of internal surface area for greater adsorption of product• Higher dirt loading capacity• Biologically inert with good thermal stability• No surfactants to contaminate samples• Uniform microporous structure of membrane gives high flow rates
Particulate contamination in jet fuel	Whatman 0.8 regular nylon (no tared option available)	<ul style="list-style-type: none">• Suitable for filtering aqueous solutions and most organic solvents• Suitable for use with a wide range of biological preparations and can be used where other membranes are unsuitable or difficult to use• Hydrophilic, eliminating need for wetting agents• Flexible, durable, tear resistant, can be autoclaved at 135°C
API fluid loss HTHP filtration test	Whatman Grade GF/A 	<ul style="list-style-type: none">• Fine particle retention and high flow rate with minimal sample interference• Used for high-efficiency laboratory filtration• Recommended for gravimetric determination of airborne particulates, stack sampling, and absorption methods
Ash content (D482)	Whatman Grades 40,41,42,43,44,589 	<ul style="list-style-type: none">• Very pure filters suitable for wide range of critical analytical procedures• Designed for gravimetric analysis• Available in ashless, hardened low ash, and hardened ashless
Cloud point (ASTM 5771)	Whatman Grade 1 	<ul style="list-style-type: none">• Prepleated also available for increased flow rate and increased loading capacity• Used for qualitative analytical techniques• Manufactured from high quality cotton linters which have been treated to achieve a minimum alpha cellulose content of 98%

What are you testing for?	Product	Characteristics and benefits
Cleanliness and stability of residual fuels (ASTM D4740)	Whatman Grade 2 	<ul style="list-style-type: none"> • Grade 2 is slightly more retentive than Grade 1, with an equivalent increase in filtration time • Manufactured from high quality cotton linters which have been treated to achieve a minimum alpha cellulose content of 98%
Mass of particulate contamination (ASTM D6217)	Whatman Nylon Membrane	<ul style="list-style-type: none"> • High quality nylon membranes • Hydrophilic which eliminates need for wetting agents • Flexible, durable, and tear resistant; autoclavable at 135°C
Microbiology	Black or green gridded microbiological membranes- Microplus and ME membranes	<ul style="list-style-type: none"> • Designed specifically for microbiological QC • High mechanical strength and flow rate • Tested for bubble point, bacterial retention, flow rate, recovery rate, and sterility • Individually packaged for convenience and sterility
Ion chromatography	Anotop™ Syringe Filters 	<ul style="list-style-type: none"> • Compatible with most organic solvents and aqueous samples • Low hold-up volume (< 20 µl for Anotop 10) for maximum sample recovery • Made without wetting agents or adhesives for low risk of sample contamination • Capillary pore structure supports highly consistent filtration results
HPLC	Mini-UniPrep™ 	Mini-UniPrep <ul style="list-style-type: none"> • All-in-one filtration device for quick and cost-effective sample processing • Eliminates the need for separate syringes, syringe membrane filters, vials, and septa • Designed for use with an HPLC or UHPLC autosampler for high-throughput analysis • 0.2 µm and 0.45 µm pore sizes available to meet sample requirements • Compatible with most major autosamplers • Housing options: amber to prevent photodegradation of light-sensitive samples, or translucent for easy visual inspection
	ReZist 	ReZist <ul style="list-style-type: none"> • Hydrophobic PTFE membrane is laminated with polypropylene • 13 mm diameter with extremely low dead volume < 10 µL • Excellent chemical resistance against standard organic HPLC solvents • 13 mm diameter with Mini-Tip outlet permits filtration into very small sample bottles • Permits optimal utilization of small sample volumes ReZist for air venting • Features and benefits • Integral, permanently hydrophobic PTFE membranes • Polypropylene support • Extremely high chemical resistance

Ordering information

Mixed cellulose ester membrane circles

Diameter (mm)	Pore size (µm)	Catalog number	Description	Quantity/pack
ME range – ME 24, plain				
25	0.2	10401706	Plain	100
47	0.2	10401712	Plain	100
47	0.2	10401770	Plain	100
50	0.2	10401714	Plain	100
50	0.2	10401772	Plain, sterile	100
100	0.2	10401721	Plain	50
110	0.2	10401726	Plain	50
142	0.2	10401731	Plain	25
ME range – ME 25, plain				
25	0.45	10401606	Plain	100
47	0.45	10401612	Plain	100
47	0.45	10401670	Plain	100
50	0.45	10401614	Plain	100
50	0.45	10401672	Plain	100
50	0.45	10401662	Plain, without interleaving paper	100
50	0.45	10401664	Plain, low C	100
90	0.45	10401618	Plain	50
100	0.45	10401621	Plain	50
110	0.45	10401626	Plain	50
142	0.45	10401631	Plain	25
ME range – ME 24, gridded				
47	0.2	10406970	White/black grid 3.1 mm, sterile	100
47	0.2	10408712	White/black grid 3.1 mm, sterile, for Membrane-Butler	400
50	0.2	10406972	White/black grid 3.1 mm, sterile	100
50	0.2	10408714	White/black grid 3.1 mm, sterile, for Membrane-Butler	400
ME range – ME 25, gridded				
47	0.45	10406812	White/black grid 3.1 mm	100
47	0.45	10407970	White/black grid 3.1 mm, sterile	100
47	0.45	10406871	White/black grid 3.1 mm, sterile	1000
47	0.45	10406512	White/black grid 5 mm	100
47	0.45	10409770	Black/white grid 3.1 mm, sterile	100
47	0.45	10409771	Black/white grid 3.1 mm, sterile	1000
47	0.45	10409414	Green/black grid 3.1 mm	1000
50	0.45	10406814	White/black grid 3.1 mm	100
50	0.45	10406572	White/black grid 5 mm, sterile	100
50	0.45	10409714	Black/white grid 3.1 mm	100
50	0.45	10409772	Black/white grid 3.1 mm, sterile	100
ME range – ME 25 Select, gridded				
47	0.45	10406800	White/black grid 3.1 mm, sterile, single packed	100
47	0.45	10406803	White/black grid 3.1 mm, sterile, for Membrane-Butler	400
50	0.45	10406801	White/black grid 3.1 mm, sterile, single packed	100
50	0.45	10406802	White/black grid 3.1 mm, sterile, for Membrane-Butler	400

Nylon membrane circles

Diameter (mm)	Pore size (µm)	Catalog number	Quantity/pack
13	0.2	7402-001	100
13	0.45	7404-001	100
25	0.2	7402-002	100
25	0.45	7404-002	100
47	0.2	7402-004	100
47	0.45	7404-004	100
47	0.8	7408-004	100
47	1.0	7410-004	100
90	0.2	7402-009	50
90	0.45	7404-009	50

Glass Microfiber Filters

Binder-free glass microfiber grades

Dimensions (mm)	Catalog number Grade GF/A	Dimensions (mm)	Catalog number Grade GF/A
Filter circles		Filter circles (continuation)	
13	1820-8013	60	1820-060
21	1820-021	70	1820-070
24	1820-024	81	1820-6537
25	1820-025	90	1820-090
32	18208296 ⁴	110	1820-110
34	1820900086 ⁴	125	1820-125
34	1820-10026 ⁴	150	1820-150
37	1820-037	240	1820-240
42.5	1820-042	Filter sheets	
47	1820-047	460 × 570	1820-915
50	1820-050	8" × 10"	1820-866
55	1820-055	50 mm × 87 mm card holder (perforated)	1820-10026
60	1820-061 ⁴	50 mm × 87 mm card holder	1820900086

Quantitative filter papers

Ashless grades

Dimensions (mm)	Catalog number								Quantity/ pack
	Grade 40	Grade 41	Grade 42	Grade 43	Grade 44	Grade 589/1	Grade 589/2	Grade 589/3	
Filter circles									
12.7	1440-012	-	-	-	-	-	-	-	400
12.7	-	-	-	-	-	-	10300102	10300263	1000
30	1440-329	-	-	-	-	-	-	-	100
32	1440-032	-	-	-	-	-	-	-	100
40.5	-	-	-	-	-	-	10300103	-	100
42.5	1440-042	1441-042	1442-042	-	-	-	-	-	100
47	1440-047	1441-047	1442-047	-	-	-	-	-	100
50	-	1441-050	-	-	-	-	10300106	-	100
55	1440-055	1441-055	1442-055	-	-	-	10300107	-	100
60	-	1441-060	-	-	-	-	-	-	100
70	1440-070	1441-070	1442-070	-	1444-070	-	10300108	-	100
90	1440-090	1441-090	1442-090	1443-090	1444-090	10300009	10300109	-	100
110	1440-110	1441-110	1442-110	1443-110	1444-110	10300010	10300110	10300210	100
125	1440-125	1441-125	1442-125	1443-125	1444-125	10300011	10300111	10300211	100
150	1440-150	1441-150	1442-150	1443-150	1444-150	10300012	10300112	10300212	100
185	1440-185	1441-185	1442-185	1443-185	1444-185	10300014	10300114	10300214	100
240	1440-240	1441-240	1442-240	-	1444-240	-	10300120	-	100
320	1440-320	1441-320	1442-320	-	-	-	-	-	100
450	1440-6168	-	-	-	-	-	-	-	100
500	-	-	-	-	-	-	-	-	100
700	-	-	-	-	-	-	-	-	100
Filter sheets									
25.4 × 90	-	-	1442-6551	-	-	-	-	-	100
203 × 254	-	1441-866	-	-	-	-	-	-	100
460 × 570	1440-917	1441-917	1442-917	-	-	-	-	-	100
Flag shape	-	-	1442-971	-	-	-	-	-	100

Qualitative filter circles

Standard grades

Diameter (mm)	Catalog number	
	Grade 1	Grade 2
10	1001-6508	-
15	1001-0155	-
20	1001-020	-
23	-	-
25	1001-325	-
25	1001-025	-
27	-	-
30	1001-329	-
30	1001-030	-
32	1001-032	-
41	-	-
42.5	1001-042	1002-042
47	1001-047	1002-047
50	-	-
55	1001-055	1002-055
60	-	-

Diameter (mm)	Catalog number	
	Grade 1	Grade 2
70	1001-070	1002-070
82	1001-082	-
85	1001-085	-
90	1001-090	1002-090
110	1001-110	1002-110
125	1001-125	1002-125
145	1001-045	-
150		1002-147
150	1001-150	1002-150
185	1001-185	1002-185
240	1001-240	1002-240
270	1001-270	1002-270
320	1001-320	1002-320
385	1001-385	1002-385
400	1001-400	-
500	1001-500	1002-500

MicroPlus and ME membrane filters

Diameter (mm)	Catalog number	Description	Pore size (µm)	Color	Grid/color	Quantity/pack
MicroPlus (cellulose nitrate)						
47	10407112	MicroPlus-21 STL	0.45	White	3.1 mm/black	100 × 4
50	10407114	MicroPlus-21 STL	0.45	White	3.1 mm/black	100 × 4
47	10407713	MicroPlus-21 ST	0.45	White	3.1 mm/black	100
50	10407714	MicroPlus-21 ST	0.45	White	3.1 mm/black	100
47	10407132	MicroPlus-31 STL	0.45	Black	3.1 mm/white	100 × 4
50	10407134	MicroPlus-31 STL	0.45	Black	3.1 mm/white	100 × 4
50	10407734	MicroPlus-31 ST	0.45	Black	3.1 mm/white	100
47	10407170	MicroPlus-41 STL	0.45	Green	3.1 mm/black	100 × 4
50	10407172	MicroPlus-41 STL	0.45	Green	3.1 mm/black	100 × 4
ME (mixed cellulose ester)						
47	10407312	ME25/21 STL	0.45	White	3.1 mm/black	400
50	10407314	ME25/21 STL	0.45	White	3.1 mm/black	400
47	10406870	ME25/21 ST	0.45	White	3.1 mm/black	100
47	10406871	ME25/21 ST	0.45	White	3.1 mm/black	1000
47	10407332	ME25/31 STL	0.45	Black	3.1 mm/white	400
50	10406872	ME25/21 ST	0.45	White	3.1 mm/black	100
50	10407334	ME25/31 STL	0.45	Black	3.1 mm/white	400
47	10407370	ME25/41 STL	0.45	Green	3.1 mm/black	400
50	10407372	ME25/41 STL	0.45	Green	3.1 mm/black	400
47	10409470	ME25/41 ST	0.45	Green	3.1 mm/black	100
50	10409472	ME25/41 ST	0.45	Green	3.1 mm/black	100
47	10408712	ME24/21 STL	0.2	White	3.1 mm/black	400
50	10408714	ME24/21 STL	0.2	White	3.1 mm/black	400
50	10407324	ME25/20 STL	0.45	White	5.0 mm/black	400
50	10408915	ME27/21 STL	0.8	White	3.1 mm/black	400
47	10407342	ME27/31 STL	0.8	Black	3.1 mm/white	400
50	10407615	ME27/41 STL	0.8	Green	3.1 mm/black	400
50	10409834	ME26/31 STL	0.6	Black	3.1 mm/white	400

MicroPlus and ME membrane filters (continuation)

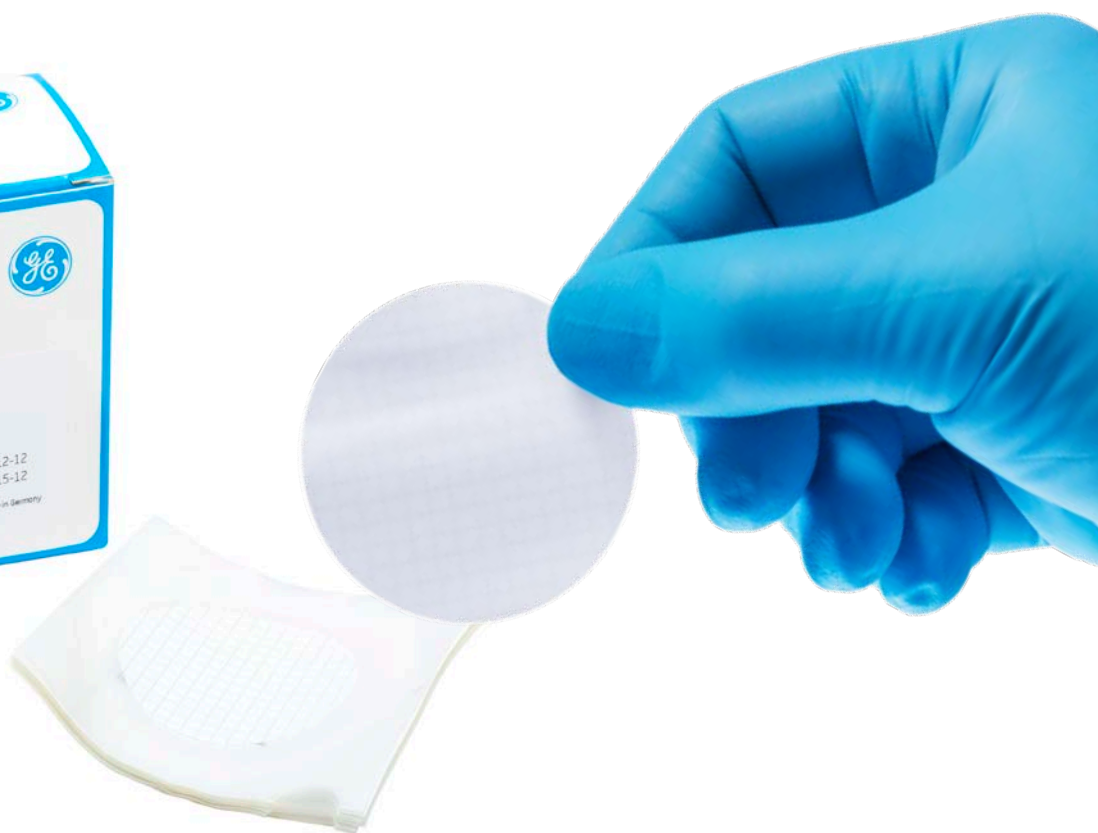
Diameter (mm)	Catalog number	Description	Pore size (µm)	Color	Grid/color	Quantity/pack
ME 24						
47	10406970	ME24/21 ST	0.2	White	3.1 mm/black	100
47	10408712	ME24/21 STL	0.2	White	3.1 mm/black	400
50	10406972	ME24/21 ST	0.2	White	3.1 mm/black	100
50	10408714	ME24/21 STL	0.2	White	3.1 mm/black	400
ME 25						
47	10407970	ME25/51 ST**	0.45	White	3.1 mm/black	100
47	10406871	ME25/21 ST	0.45	White	3.1 mm/black	1000
47	10409770	ME25/31 ST	0.45	Black	3.1 mm/white	100
47	10409771	ME25/31 ST	0.45	Black	3.1 mm/white	1000
50	10406572	ME25/20 ST	0.45	White	5.0 mm/black	100
50	10409772	ME25/31 ST	0.45	Black	3.1 mm/white	100
ME 27						
47	10408970	ME27/21 ST	0.8	White	3.1 mm/black	100
47	10409970	ME27/61 ST with pad	0.8	White	3.1 mm/black	100
50	10405672	ME27/41 ST	0.8	Green	3.1 mm/black	100
ME 28						
50	10408472	ME28/41 ST	1.2	Green	3.1 mm/black	100
WME						
47	7187-114	WME ST without pad*	0.2	White	3.1 mm/black	100
47	7141-104	WME ST with pad	0.45	White	3.1 mm/black	100
47	7141-114	WME ST without pad*	0.45	White	3.1 mm/black	100
47	7141-124	WME ST without pad*	0.45	White	3.1 mm/black	200
47	7141-154	WME ST without pad*	0.45	White	3.1 mm/black	1000
47	7141-204	WME autoclave pack	0.45	White	3.1 mm/black	100
47	7153-104	WME ST with pad*	0.45	Black	3.1 mm/white	100

* Individually packed

ST – Single sterile packed

** With hydrophobic rim

STL – Sterile, for use with Whatman Membrane-Butler



Anotop syringe filters

Pore size (µm)	Media	Catalog number	Quantity/pack
Anotop 10			
0.02	Anopore	6809-1002	50
0.1	Anopore	6809-1012	50
0.2	Anopore	6809-1022	50
0.02	Anopore, sterile	6809-1102	50
0.1	Anopore, sterile	6809-1112	50
0.2	Anopore, sterile	6809-1122	50
Anotop 10 Plus			
0.02	Anopore with prefilter	6809-3002	50
0.1	Anopore with prefilter	6809-3012	50
0.2	Anopore with prefilter	6809-3022	50
0.02	Anopore with prefilter, sterile	6809-3102	50
0.1	Anopore with prefilter, sterile	6809-3112	50
0.2	Anopore with prefilter, sterile	6809-3122	50
Anotop 25			
0.02	Anopore	6809-2002	50
0.1	Anopore	6809-2012	50
0.2	Anopore	6809-2022	50
0.2	Anopore	6809-2024	200
0.02	Anopore, sterile	6809-2102	50
0.1	Anopore, sterile	6809-2112	50
0.2	Anopore, sterile	6809-2122	50
Anotop 25 Plus			
0.02	Anopore with prefilter	6809-4002	50
0.1	Anopore with prefilter	6809-4012	50
0.2	Anopore with prefilter	6809-4022	50
0.02	Anopore with prefilter, sterile	6809-4102	50
0.1	Anopore with prefilter, sterile	6809-4112	50
0.2	Anopore with prefilter, sterile	6809-4122	50
0.2	Anopore with prefilter	6809-4024	200
Anotop 10 IC			
0.2	Anopore	6809-9233	100
0.2	Anopore	6809-9234	200
Anotop 25 IC			
0.2	Anopore	6809-9244	200
Anotop 10 IC blister			
0.2	Anopore	6809-9232	50
0.2	Anopore	6809-9235	250
Anotop 10 LC			
0.2	Anopore	2001-0100	100
0.2	Anopore	2001-0200	200
Anotop 25 LC			
0.2	Anopore	2002-5100	100
0.2	Anopore	2002-5200	200



Mini-UniPrep integrated syringeless filters and filter vials

Pore size (µm)	Catalog number	Media	Quantity/pack
Standard cap – translucent housing			
0.2	UN203NPENYL	Nylon	100
0.2	UN503NPENYL	Nylon	1000
0.45	UN203NPUNYL	Nylon	100
0.45	UN503NPUNYL	Nylon	1000
0.2	UN203NPEPES	PES	100
0.45	UN203NPUPES	PES	100
0.45	UN503NPUPES	PES	1000
0.2	UN203NPEAQU	PVDF	100
0.2	UN503NPEAQU	PVDF	1000
0.45	UN203NPUAQU	PVDF	100
0.45	UN503NPUAQU	PVDF	1000
0.2	UN203NPERC	RC	100
0.2	UN503NPERC	RC	1000
0.45	UN203NPURC	RC	100
0.45	UN503NPURC	RC	1000
0.2	UN203NPEORG	PTFE	100
0.2	UN503NPEORG	PTFE	1000
0.45	UN203NPUORG	PTFE	100
0.45	UN503NPUORG	PTFE	1000
0.2	UN203NPEPP	PP	100
0.2	UN503NPEPP	PP	1000
0.45	UN203NPUPP	PP	100
0.45	UN503NPUPP	PP	1000
0.45	UN203NPUDPP	DpPP	100
0.45	UN503NPUDPP	DpPP	1000
0.45	UN203NPUGMF	GMF	100
0.45	UN503NPUGMF	GMF	1000



Mini-UniPrep integrated syringeless filters and filter vials (continuation)

Pore size (µm)	Catalog number	Media	Quantity/pack
Slit septum cap – translucent housing			
0.2	US203NPENYL	Nylon	100
0.2	US503NPENYL	Nylon	1000
0.45	US203NPUNYL	Nylon	100
0.2	US203NPEPES	PES	100
0.2	US503NPEPES	PES	1000
0.45	US203NPUPES	PES	100
0.2	US203NPEAQU	PVDF	100
0.2	US503NPEAQU	PVDF	1000
0.45	US203NPUAQU	PVDF	100
0.45	US503NPUAQU	PVDF	1000
0.2	US203NPEORG	PTFE	100
0.2	US503NPEORG	PTFE	1000
0.45	US203NPUORG	PTFE	100
0.45	US503NPUORG	PTFE	1000
0.2	US203NPEPP	PP	100
0.2	US503NPEPP	PP	1000
0.45	US203NPUPP	PP	100
0.45	US503NPUPP	PP	1000
0.45	US203NPUDPP	DpPP	100
0.45	US503NPUDPP	DpPP	1000
0.45	US203NPUGMF	GMF	100
0.45	US503NPUGMF	GMF	1000
Amber housing (for light sensitive samples) – standard cap			
0.2	UN203APENYL	Nylon	100
0.45	UN203APUNYL	Nylon	100
0.2	UN203APEPES	PES	100
0.45	UN203APUPES	PES	100
0.2	UN203APEAQU	PVDF	100
0.45	UN203APUAQU	PVDF	100
0.2	UN203APEORG	PTFE	100
0.45	UN203APUORG	PTFE	100
0.2	UN203APEPP	PP	100
0.45	UN203APUPP	PP	100
0.45	UN203APUDPP	DpPP	100
0.45	UN203APUGMF	GMF	100
Amber housing (for light sensitive samples) – slit septum cap			
0.45	US203APUNYL	Nylon	100
Accessories – six-position compressor			
-	CR0000006	-	1

ReZist syringe filters

Diameter (mm)	Pore size (µm)	Catalog number	Media/housing	Connection (in/out)	Color code	Quantity/pack
13	0.2	10463703	PTFE/PP	FLL/Mini-Tip	White	100
13	0.45	10463713	PTFE/PP	FLL/Mini-Tip	Green	100
30	0.2	10463500*	PTFE/PP	FLL/ML	White	50
30	0.2	10463503	PTFE/PP	FLL/ML	White	100
30	0.2	10463505	PTFE/PP	FLL/ML	White	500
30	0.45	10463513	PTFE/PP	FLL/ML	Green	100
30	0.45	10463515	PTFE/PP	FLL/ML	Green	500
30	> 1.0	10463545	GF92/PP	FLL/ML	Natural	500
30	> 1.0	10463543	GF92/PP	FLL/ML	Natural	100
30	1.0	10463523	PTFE/PP	FLL/ML	Yellow	100
30	1.0	10463525	PTFE/PP	FLL/ML	Yellow	500
30	5.0	10463533	PTFE/PP	FLL/ML	Grey	100
30	5.0	10463535	PTFE/PP	FLL/ML	Grey	500

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