

# TECHNICAL SPECIFICATIONS OF PAPER FILTER

## USE

QUALITATIVE GENERAL USE	QLPG G: 65 g/m <sup>2</sup> P: 7-10 μm T: 170 μm A: <0,10%		QLPV G: 130 g/m <sup>2</sup> P: 25-30 μm T: 430 μm A: <0,06%				
QUALITATIVE LOW ASH	QLDS G: 100 g/m <sup>2</sup> P: 2-3 μm T: 200 μm A: <0,06%	QLDM G: 85 g/m <sup>2</sup> P: 10-12 μm T: 200 μm A: <0,06%	QLDF Gr: 95 g/m <sup>2</sup> P: 20-25 μm T: 215 μm A: <0,06%				
QUANTITATIVE HARDENED	QNHS G: 80 g/m <sup>2</sup> P: 7-9 μm T: 290 μm A: <0,02%	QNHM G: 80 g/m <sup>2</sup> P: 8-12 μm T: 270 μm A: <0,02%	QNHF G: 80 g/m <sup>2</sup> P: 12-16 μm T: 250 μm A: <0,02%	G = Surface weight P = Pore T = Thickness A = Ashes			
QUANTITATIVE	QNDS G: 80 g/m <sup>2</sup> P: 7-9 μm T: 290 μm A: <0,002%	QNDM G: 80 g/m <sup>2</sup> P: 8-12 μm T: 270 μm A: <0,002%	QNDF G: 80 g/m <sup>2</sup> P: 10-15 μm T: 250 μm A: <0,002%				
RETENTION (μm)	0	5	10	15	20	25	30

G = Surface weight  
P = Pore  
T = Thickness  
A = Ashes

## Qualitative filter paper for general use, medium flow rate

Maximum ash content 0.10%. Vellum paper used for general laboratory filtration. Surface weight 65 g/m<sup>2</sup>, pore 7 - 10 µm, thickness 170 µm. Available in flat disks (packed in foiled bags of 100 disks, with no carton box), or folded (in a carton box). Equivalent to: Whatman 93

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QLPG-070-100	70	disk	100		
QLPG-090-100	90	disk	100		
QLPG-110-100	110	disk	100		
QLPG-125-100	125	disk	100		
QLPG-150-100	150	disk	100		
QLPG-185-100	185	disk	100		
QLPG-240-100	240	disk	100		
QLPG-111-100	110	folded	100		
QLPG-126-100	125	folded	100		
QLPG-151-100	150	folded	100		
QLPG-186-100	185	folded	100		
QLPG-201-100	200	folded	100		
QLPG-241-100	240	folded	100		
QLPG-251-100	250	folded	100		
QLPG-401-100	400	folded	100		

## PRAT DUMAS



PRAT DUMAS



Qualitative filter paper for general use, very fast flow rate

Maximum ash content 0.06%. Paper made of long cotton fibers for thick and sticky liquids filtration. Thick and very resistant paper, offering the fastest flow among qualitative filters. Surface weight 130 g/m<sup>2</sup>, pore 25 - 30 µm, thickness 430 µm. Available in flat disks and folded. Equivalent to: Whatman 114

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QLPV-070-100	70	disk	100		
QLPV-090-100	90	disk	100		
QLPV-110-100	110	disk	100		
QLPV-125-100	125	disk	100		
QLPV-150-100	150	disk	100		
QLPV-185-100	185	disk	100		
QLPV-240-100	240	disk	100		
QLPV-111-100	110	folded	100		
QLPV-126-100	125	folded	100		
QLPV-151-100	150	folded	100		
QLPV-186-100	185	folded	100		
QLPV-201-100	200	folded	100		
QLPV-241-100	240	folded	100		
QLPV-251-100	250	folded	100		

PRAT DUMAS



Qualitative filter paper, low ash, slow flow rate

Low ash content paper (max 0.06%) used for fine filtration of small particles precipitates. Surface weight 100 g/m<sup>2</sup>, pore 2 - 3 µm, thickness 200 µm. Available in flat disks and folded. Equivalent to: Whatman 5

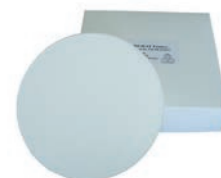
reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QLDS-070-100	70	disk	100		
QLDS-090-100	90	disk	100		
QLDS-110-100	110	disk	100		
QLDS-125-100	125	disk	100		
QLDS-150-100	150	disk	100		
QLDS-185-100	185	disk	100		
QLDS-240-100	240	disk	100		
QLDS-111-100	110	folded	100		
QLDS-126-100	125	folded	100		
QLDS-151-100	150	folded	100		
QLDS-201-100	200	folded	100		
QLDS-251-100	250	folded	100		
QLDS-401-100	400	folded	100		

### Qualitative filter paper, low ash, medium flow rate

Superior Vellum paper made of pure cellulose and low ash (max 0.06%). General use in laboratory  
Surface weight 85 g/m<sup>2</sup>, pore 10 - 12 µm, thickness 200 µm. Available in flat disks and folded  
Equivalent to: Whatman 1

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QLDM-070-100	70	disk	100		
QLDM-090-100	90	disk	100		
QLDM-110-100	110	disk	100		
QLDM-125-100	125	disk	100		
QLDM-150-100	150	disk	100		
QLDM-185-100	185	disk	100		
QLDM-240-100	240	disk	100		
QLDM-111-100	110	folded	100		
QLDM-126-100	125	folded	100		
QLDM-151-100	150	folded	100		
QLDM-201-100	200	folded	100		
QLDM-251-100	250	folded	100		
QLDM-401-100	400	folded	100		

### PRAT DUMAS



### Qualitative filter paper, low ash, fast flow rate

Low ash paper (max 0.06%) made of cotton fibers, used for thick and sticky liquids filtration. Surface weight 85 g/m<sup>2</sup>, pore 10 - 12 µm, thickness 200 µm. Available in flat disks and folded. Equivalent to: Whatman 4

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QLDF-070-100	70	disk	100		
QLDF-090-100	90	disk	100		
QLDF-110-100	110	disk	100		
QLDF-125-100	125	disk	100		
QLDF-150-100	150	disk	100		
QLDF-185-100	185	disk	100		
QLDF-240-100	240	disk	100		
QLDF-111-100	110	folded	100		
QLDF-126-100	125	folded	100		
QLDF-151-100	150	folded	100		
QLDF-201-100	200	folded	100		
QLDF-251-100	250	folded	100		
QLDF-401-100	400	folded	100		

### PRAT DUMAS



### Quantitative filter paper, slow flow rate

Ash-free paper (max 0.002%) made exclusively of cellulose cotton fibers. Used for critical gravimetrical analysis.  
Surface weight 80 g/m<sup>2</sup>, pore 7 - 9 µm, thickness 290 µm. Available in flat disks. Equivalent to: Whatman 42

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QNDS-070-100	70	disk	100		
QNDS-090-100	90	disk	100		
QNDS-110-100	110	disk	100		
QNDS-125-100	125	disk	100		
QNDS-150-100	150	disk	100		

### PRAT DUMAS



PRAT DUMAS



Quantitative filter paper, medium flow rate

Ash-free paper (max 0.002%) made exclusively of cellulose cotton fibers. Used for routine gravimetical analysis. Intermediate filter in terms of flow rate and retention. Surface weight 80 g/m<sup>2</sup>, pore 8 - 12 µm, thickness 270 µm. Available in flat disks. Equivalent to: Whatman 40

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QNDM-070-100	70	disk	100		
QNDM-090-100	90	disk	100		
QNDM-110-100	110	disk	100		
QNDM-125-100	125	disk	100		
QNDM-150-100	150	disk	100		

PRAT DUMAS



Quantitative filter paper, fast flow rate

Ash-free paper (max 0.002%) made exclusively of cellulose cotton fibers. Its quick flow rate makes it recommendable for large precipitates, such as iron hydroxyde and other metal sulfates. Surface weight 80 g/m<sup>2</sup>, pore 10 - 15 µm, thickness 250 µm. Available in flat disks. Equivalent to: Whatman 43

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QNDF-070-100	70	disk	100		
QNDF-090-100	90	disk	100		
QNDF-110-100	110	disk	100		
QNDF-125-100	125	disk	100		
QNDF-150-100	150	disk	100		

PRAT DUMAS



Hardened quantitative filter paper, slow flow rate

Hardened low ash paper (max 0.02%), as an intermediate solution between quantitative ash free paper (max 0.002%) and qualitative paper low ash (max 0.06%) for non critical quantative works. Recommended for thin precipitates, such as barium, lead, zinc or nickel sulfate, barium fluoride or barium hydroxide. High wet resistance. Surface weight 80 g/m<sup>2</sup>, pore 7 - 9 µm, thickness 290 µm. Available in flat disks (foiled bags of 100 disks, with no carton box), or folded (in a carton box). Equivalent to: Whatman 50

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QNHS-070-100	70	disk	100		
QNHS-090-100	90	disk	100		
QNHS-110-100	110	disk	100		
QNHS-125-100	125	disk	100		
QNHS-150-100	150	disk	100		
QNHS-111-100	110	folded	100		
QNHS-126-100	125	folded	100		
QNHS-151-100	150	folded	100		



### Hardened quantitative filter paper, medium flow rate

Hardened low ash paper (max 0.02%), as an intermediate solution between quantitative ash free paper (max 0.002%) and qualitative paper low ash (max 0.06%) for non critical quantative works. Medium flow rate is the adequate for a general use, being the intermediate filter in terms of flow rate and retention. High wet resistance. Surface weight 80 g/m<sup>2</sup>, pore 8 - 12 µm, thickness 270 µm. Available in flat disks (foiled bags of 100 disks, with no carton box), or folded (in a carton box). Equivalent to: Whatman 52

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QNHM-070-100	70	disk	100		
QNHM-090-100	90	disk	100		
QNHM-110-100	110	disk	100		
QNHM-125-100	125	disk	100		
QNHM-150-100	150	disk	100		
QNHM-111-100	110	folded	100		
QNHM-126-100	125	folded	100		
QNHM-151-100	150	folded	100		

### PRAT DUMAS



### Hardened quantitative filter paper, fast flow rate

Hardened low ash paper (max 0.02%), as an intermediate solution between quantitative ash free paper (max 0.002%) and qualitative paper low ash (max 0.06%) for non critical quantative works. Its flow rate makes it recommendable for large precipitates, such as iron hydroxyde and other metal sulfates. High wet resistance. Surface weight 80 g/m<sup>2</sup>, pore 12 - 16 µm, thickness 250 µm. Available in flat disks (foiled bags of 100 disks, with no carton box), or folded (in a carton box). Equivalent to: Whatman 54

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
QNHF-070-100	70	disk	100		
QNHF-090-100	90	disk	100		
QNHF-110-100	110	disk	100		
QNHF-125-100	125	disk	100		
QNHF-150-100	150	disk	100		
QNHF-111-100	110	folded	100		
QNHF-126-100	125	folded	100		
QNHF-151-100	150	folded	100		

### PRAT DUMAS



### CROSS-REFERENCES CHART

Labbox	Whatman	Prat Dumas	Albet	Filter-lab	Macherey Nagel	Fioroni	S & S
QLPG	93	106	—	—	713	122, 600	
QLPV	114	607	400	1300			0860, 0859
QLDS	5	210	414, FP602h	1256	619	115	602eh
QLDM	1	108	412, FP595, FP597	1250	615	601	595
QLDF	4	609	411, FP604	1248	617	111	604
QNH5	50	601	501, FP1575	2244	1640d	155	1575
QNHM	52	600	502, FP1574	2240	1640m	153	1574
QNHF	54	603	503, FP1573	2235	1640we	151	1573
QNDS	42	6601	150, FP589/3	1244	640d	15	589/3
QNDM	40	6600	145, FP589/5	1242	640md	13	589/5
QNDF	43	6602	140, FP589/2	1240	640m	12	589/2

Notes: the cross-references between different paper filter manufacturers are shown only as mere information to make the change to another brand easier. Two paper filters are never equal and we recommend you to make a test before using it. The above mentioned brands here are registered marks of their respective owners and do not have any connection with Labbox

PRAT DUMAS



Microfiber glass paper filter, grade GFFC (1,2 µm)

Paper made from glass microfiber 100% borosilicate without binder. Fast filtration with a retention of fine particles. Standard filter for determination of particle suspensions (S.P.M.) in drinking or sewage water according to European standards (EN 872) and American standards (Standard Methods 2540D). Can be used at very high-temperature. Surface weight 55 g/m<sup>2</sup>, pore 1,2 µm, thickness 270 µm. Available in flat disks. Equivalent to: Whatman GF/C, Macherey Nagel GF-3, Millipore AP40, S&S GF52

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
GFFC-025-100	25	disk	100		
GFFC-047-100	47	disk	100		
GFFC-055-100	55	disk	100		
GFFC-070-100	70	disk	100		
GFFC-090-100	90	disk	100		
GFFC-E47-050	47	disk, sterile	50		

PRAT DUMAS



Glass microfiber filter, grade GFFA (1,6 µm)

Paper made from glass microfiber 100% borosilicate without binder. Very fast filtration with a high retention and capacity of fine particles. For general use in laboratory. Can be used at very high temperature. Surface weight 37 g/m<sup>2</sup>, pore 1,6 µm, thickness 190 µm. Available in flat disks. Equivalent to: Whatman GF/A, Macherey Nagel GF-1, S&S GF50

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
GFFA-025-100	25	disk	100		
GFFA-047-100	47	disk	100		
GFFA-055-100	55	disk	100		
GFFA-090-100	90	disk	100		

PRAT DUMAS



Phase separating paper

Hydrophobic paper for the fast separation of aqueous solutions from hydrofuge solvents. Useful with organic solvents heavier or lighter than water. Replaces separatory funnels in many applications. Available in flat disks. Equivalent: Whatman 1 PS

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
FASE-090-100	90	disk	100		
FASE-110-100	110	disk	100		
FASE-125-100	125	disk	100		
FASE-150-100	150	disk	100		
FASE-210-100	210	disk	100		

PRAT DUMAS



Joseph paper

Extra thin paper, superior quality for wiping or packing laboratory glassware, chemical and solvent-free. Excellent absorption and perfect wiping not going fluffy. Surface weight: 30 g/m<sup>2</sup>. Thickness: 70 µm

reference	l (mm)	w (mm)	pcs/pack	price/pack	average price/pc
JPPF-350-040	350	500	40		
JPPF-350-800	350	500	800		

### Activated carbon paper filter

Activated carbon paper used to dispose benzene, toluene, xylene, ethylbenzene or other small organic molecules. Commonly used in water filtration and odor removal. Available in flat disks

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
ACAF-070-100	70	disk	100		
ACAF-090-100	90	disk	100		
ACAF-110-100	110	disk	100		
ACAF-125-100	125	disk	100		
ACAF-150-100	150	disk	100		

### Blotting paper for germination tests

Blotting paper used in laboratory for the tests and the controls of germination. It allows to determine the capacity of germination of seeds. Good absorption capacity (300 %). Paper supplied in wrinkled bands (50 double folds) of 2 m length and 110 mm wide. Color: white, yellow or grey

reference	l (mm)	w (mm)	color	pcs/pack	price/pack	average price/pc
GERF-001-100	2000	110	white	100		
GERF-002-100	2000	110	yellow	100		
GERF-003-100	2000	110	grey	100		

### Antibiotic control filter paper (antibiograms)

Very thick and absorbent cotton fiber used to determine the suitable antibiotic for a particular infection treatment. Surface weight 420 g/m<sup>2</sup>. Available in flat disks

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
ANTF-004-1K0	4	disk	1000		
ANTF-006-1K0	6	disk	1000		
ANTF-009-1K0	9	disk	1000		
ANTF-013-1K0	13	disk	1000		

### Blaine test filter paper

Special paper for determining the fineness of cement according to EN 196-6:2010 standard. Methods of cement testing. Determination of fineness. Available in flat disks. Diameters: 12,7 mm or 40,5 mm

reference	Ø (mm)	type	pcs/pack	price/pack	average price/pc
BLAF-012-1K0	12,7	disk	1000		
BLAF-040-1K0	40,5	disk	1000		

### CN and CE membrane filters, non-sterile

Plain white membranes available in cellulose nitrate (CN) and cellulose acetate (CA)

reference	Ø (mm)	pore (µm)	type	pcs/pack	price/pack	average price/pc
MACN-447-100	47	0,45	cellulose acetate	100		
MACN-247-100	47	0,20	cellulose acetate	100		
MACN-847-100	47	0,80	cellulose acetate	100		
MCNN-447-100	47	0,45	cellulose nitrate	100		
MCNN-247-100	47	0,20	cellulose nitrate	100		
MCNN-847-100	47	0,80	cellulose nitrate	100		

#### PRAT DUMAS



#### PRAT DUMAS



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#### PRAT DUMAS



BRANCHIA



**Nylon Membrane filters, non-sterile**

Membrane made of hydrophilic Nylon 66. Suitable for sample preparation in HPLC applications. Ideal for routine analysis. High thermal resistance

reference	Ø (mm)	pore (µm)	pcs/pack	price/pack	average price/pc
MFNY-247-200	47	0,22	200		
MFNY-447-200	47	0,45	200		

BRANCHIA

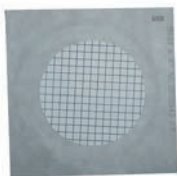


**PES Membrane filters, non-sterile**

Very suitable for culture media assays. Membrane made of Polyethersulfone (PES), inherently hydrophilic. Fast filtration speed. Membrane mechanically very strong and resistant to an extensive range of aqueous solvents. Low protein binding

reference	Ø (mm)	pore (µm)	pcs/pack	price/pack	average price/pc
MFPE-247-200	47	0,22	200		
MFPE-447-200	47	0,45	200		

PRAT DUMAS



**CN membrane filters, sterile**

White cellulose nitrate membranes (CN) with black grid for microbiology applications. Sterile, individual packaging

reference	Ø (mm)	pore (µm)	pcs/pack	price/pack	average price/pc
MCNE-447-100	47	0,45	100		
MCNE-247-100	47	0,20	100		
MCNE-450-100	50	0,45	100		
MCNE-250-100	50	0,20	100		

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**Funnel short stem, polypropylene**

Autoclavable at 121 °C

reference	Ø <sub>stem</sub> (mm)	Ø <sub>top</sub> (mm)	l <sub>stem</sub> (mm)	pcs/pack	price/pack	average price/pc
FUSP-050-012	7	50	48	12		
FUSP-062-012	7	62	60	12		
FUSP-075-012	8	75	75	12		
FUSP-100-012	9	100	90	12		
FUSP-150-012	16	150	110	12		

LBG



**Funnel with long stem**

Made of borosilicate glass LBG 3.3 and according to ISO 4798 standard

reference	Ø <sub>top</sub> (mm)	l <sub>stem</sub> (mm)	Ø <sub>stem</sub> (mm)	pcs/pack	price/pack	average price/pc
FUL3-050-006	50	150	7	6		
FUL3-060-006	60	150	8	6		
FUL3-075-006	75	150	9	6		
FUL3-090-006	90	150	11	6		



### Funnel with short stem

Made of borosilicate glass LBG 3.3 and according to ISO 4798 standard

reference	Ø <sub>top</sub> (mm)	l <sub>stem</sub> (mm)	Ø <sub>stem</sub> (mm)	pcs/pack	price/pack	average price/pc
FUS3-040-012	40	50	7	12		
FUS3-050-012	50	50	7	12		
FUS3-060-012	60	60	8	12		
FUS3-075-012	75	75	9	12		
FUS3-090-012	90	90	11	12		
FUS3-100-006	100	100	13	6		
FUS3-120-006	120	120	15	6		

### NEW Funnel, PTFE

Chemically resistant and inert. Smooth, non-sticky internal surface

reference	Ø (mm)	Ø <sub>stem</sub> (mm)	h (mm)	pcs/pack	price/pack
FPTF-050-001	50	10	85	1	
FPTF-070-001	70	12	110	1	
FPTF-100-001	100	14	170	1	

### Powder funnel, polypropylene

Autoclavable at 121 °C

reference	Ø (mm)	Ø <sub>stem</sub> (mm)	pcs/pack	price/pack	average price/pc
PFUP-065-006	65	12	6		
PFUP-080-006	80	12	6		
PFUP-100-006	100	18	6		
PFUP-150-006	150	24	6		

### NEW Thistle funnel

Made of polypropylene. Facilitates the addition of liquids to burettes and narrow neck flasks

reference	Ø <sub>top</sub> (mm)	Ø <sub>stem</sub> (mm)	l <sub>total</sub> (mm)	pcs/pack	price/pack
THIP-035-001	35	6	250	1	

### Funnel holder

Polypropylene. To hold funnels with top diameter of 50 to 120 mm

reference	type	pcs/pack	price/pack
FHOP-001-001	for 1 funnel	1	

### Separatory funnel, conical, with PTFE stopcock and plastic stopper

Made of borosilicate glass LBG 3.3

reference	capacity	l (mm)	mouth	pcs/pack	price/pack	average price/pc
SFT3-060-002	60 ml	205	14/23	2		
SFT3-125-002	125 ml	260	19/26	2		
SFT3-250-002	250 ml	290	19/26	2		
SFT3-500-002	500 ml	330	24/29	2		
SFT3-1K0-002	1000 ml	400	29/32	2		

LBG



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LBG





### Separatory funnel, conical with PTFE stopcock

Made of 3.3 borosilicate glass (upper grade). In compliance with DIN / ISO 4800 standard

reference	capacity	l (mm)	mouth	pcs/pack	price/pack
SFTG-050-001	50 ml	240	19/26	1	
SFTG-100-001	100 ml	265	19/26	1	
SFTG-250-001	250 ml	320	29/32	1	
SFTG-500-001	500 ml	350	29/32	1	
SFTG-1K0-001	1000 ml	440	29/32	1	
SFTG-2K0-001	2000 ml	490	29/32	1	



LBG

### Separatory funnel, conical, with glass stopcock and plastic stopper

Made of borosilicate glass LBG 3.3

reference	capacity	l (mm)	mouth	pcs/pack	price/pack	average price/pc
SFU3-060-002	60 ml	205	14/23	2		
SFU3-125-002	125 ml	260	19/26	2		
SFU3-250-002	250 ml	290	19/26	2		
SFU3-500-002	500 ml	330	24/29	2		



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### Separatory funnel, polypropylene

Autoclavable at 121 °C. With screw cap and PP stopcock with PTFE joint

reference	capacity	l (mm)	pcs/pack	price/pack	average price/pc
SFUP-100-002	100 ml	250	2		
SFUP-250-002	250 ml	305	2		
SFUP-500-002	500 ml	355	2		



astik's

### Separatory funnel holder

Polypropylene. To hold funnels from 125 ml up to 500 ml

reference	type	pcs/pack	price/pack
SFHP-001-001	for 1 funnel	1	



### Büchner funnel with sintered disc

Made of borosilicate glass LBG 3.3. To be used with a filtering flask with standard ground mouth reference FFK3. Each funnel has a sintered disc with a different porosity grade: 90-150 µm (porosity 1), 40-90 µm (porosity 2), 15-40 µm (porosity 3), 5-15 µm (porosity 4)

reference	capacity	Ø (mm)	joint ST/NS	type	pcs/pack	price/pack
BFU3-A35-001	35 ml	30	19/26	porosity 1	1	
BFU3-B35-001	35 ml	30	19/26	porosity 2	1	
BFU3-C35-001	35 ml	30	19/26	porosity 3	1	
BFU3-D35-001	35 ml	30	19/26	porosity 4	1	
BFU3-A80-001	80 ml	40	29/32	porosity 1	1	
BFU3-B80-001	80 ml	40	29/32	porosity 2	1	
BFU3-C81-001	80 ml	40	19/26	porosity 3	1	
BFU3-C80-001	80 ml	40	29/32	porosity 3	1	
BFU3-D80-001	80 ml	40	29/32	porosity 4	1	
BFU3-20A-001	200 ml	65	29/32	porosity 1	1	
BFU3-20B-001	200 ml	65	29/32	porosity 2	1	
BFU3-21C-001	200 ml	65	19/26	porosity 3	1	
BFU3-20C-001	200 ml	65	29/32	porosity 3	1	
BFU3-20D-001	200 ml	65	29/32	porosity 4	1	



### Hirsch funnel Premium Line

Made of porcelain. Highly resistant to chemical attack. With fixed perforated plate for paper or membrane filters. Glazed inside and outside, except rim. Autoclavable

reference	capacity	Ø <sub>top</sub> (mm)	h (mm)	for paper filter Ø	pcs/pack	price/pack
HFFK-030-001	10 ml	30	50	10 mm	1	
HFFK-040-001	12 ml	40	70	13-15 mm	1	
HFFK-050-001	25 ml	50	75	25-30 mm	1	
HFFK-075-001	50 ml	75	130	40-47 mm	1	

HDN  
ceramics



### Filtering flask, ground mouth with hose connector

Made of borosilicate glass LBG 3.3

reference	capacity	Ø <sub>base</sub> (mm)	h (mm)	Ø <sub>side hose</sub> (mm)	joint ST/NS	pcs/pack	price/pack
FFK3-101-001	100 ml	64	105	8	29/32	1	
FFK3-102-001	100 ml	64	105	8	19/26	1	
FFK3-250-001	250 ml	85	128	10	29/32	1	
FFK3-500-001	500 ml	105	165	10	29/32	1	
FFK3-1K0-001	1000 ml	131	210	10	29/32	1	

LBG



### Filtering flask, Erlenmeyer shape

Manufactured in neutral glass LBG N

reference	capacity	Ø <sub>base</sub> (mm)	h (mm)	Ø <sub>mouth</sub> (mm)	Ø <sub>side hose</sub> (mm)	pcs/pack	price/pack
FFEN-250-001	250 ml	90	160	30	8	1	
FFEN-500-001	500 ml	115	210	34	10	1	
FFEN-1K0-001	1000 ml	140	245	43	10	1	

LBG



### Filtering flask, Erlenmeyer shape

Manufactured with top quality 3.3 borosilicate glass. According to ISO 6556 and USP standard

reference	capacity	Ø <sub>base</sub> (mm)	h (mm)	Ø <sub>mouth</sub> (mm)	Ø <sub>side hose</sub> (mm)	pcs/pack	price/pack	average price/pc
FFE3-100-002	100 ml	72	105	24	8	2		
FFE3-250-002	250 ml	84	158	29	10	2		
FFE3-500-002	500 ml	106	188	33,5	10	2		
FFE3-1K0-002	1000 ml	135	242	37	12	2		
FFE3-2K0-001	2000 ml	166	280	40	12	1		

GLASSCO



NEW

### Filtering flask, PP

Molded in one piece, flasks can withstand full vacuum to 30 mmHg. Suitable for tubing with 6,4 mm to 9,5 mm inner diameter. Side arm tubulation at 45° angle helps prevent tipping

reference	capacity	Ø <sub>base</sub> (mm)	h (mm)	Ø <sub>mouth</sub> (mm)	Ø <sub>side hose</sub> (mm)	pcs/pack	price/pack
FFEP-250-001	250 ml	91	139	37	6	1	
FFEP-500-001	500 ml	115	186	46	6	1	
FFEP-1K0-001	1000 ml	143	214	48	6	1	
FFEP-2K0-001	2000 ml	158	270	55	6	1	

astik's



HDN  
ceramics**Büchner funnel, porcelain, Premium Line**

Made of high grade porcelain. Glazed inside and outside except rim. Autoclavable

reference	capacity	$\varnothing_{\text{top}}$ (mm)	h (mm)	for paper filter $\varnothing$	pcs/pack	price/pack
BFUK-035-001	35 ml	50	91	35-40 mm	1	
BFUK-100-001	100 ml	65	103	50-55 mm	1	
BFUK-200-001	200 ml	86	140	70 mm	1	
BFUK-350-001	350 ml	105	162	90 mm	1	
BFUK-600-001	600 ml	127	194	110 mm	1	
BFUK-800-001	800 ml	143	200	110-124 mm	1	
BFUK-1K1-001	1150 ml	172	220	142-150 mm	1	
BFUK-2K0-001	2000 ml	210	272	185 mm	1	
BFUK-4K8-001	4800 ml	270	352	240 mm	1	

astik's

**Büchner funnel, polypropylene**

Autoclavable at 121 °C. Removable base for an easy cleaning

reference	capacity	$\varnothing_{\text{top}}$ (mm)	h <sub>total</sub> (mm)	for paper filter $\varnothing$	pcs/pack	price/pack
BFUP-070-001	120 ml	75	140	70 mm	1	
BFUP-110-001	400 ml	130	210	110 - 125 mm	1	

**GUKO rubber gaskets, for filtering flask**

Made of natural rubber, grey

reference	size	d (mm)	d <sub>2</sub> (mm)	a (mm)	b (mm)	pcs/pack	price/pack
GUKO-001-001	1	21	12	18	2,5	1	
GUKO-002-001	2	27	17	20	3	1	
GUKO-003-001	3	33	21	24	3	1	
GUKO-004-001	4	41	27,5	27	4	1	
GUKO-005-001	5	53	33	34	5	1	
GUKO-006-001	6	68	48	35	5,5	1	
GUKO-007-001	7	78	58	35	6	1	
GUKO-008-001	8	89	66	40	6,5	1	

**GUKO set rubber gaskets, for filtering flask**

Contains one unit of each of the 8 available sizes

reference	type	pcs/pack	price/pack
GUKO-SET-001	sizes from 1 to 8 (one of each size)	1	

**Filter unit for 47 mm disc filters**Made of top quality 3.3 borosilicate glass. Contains flask, fritted glass holder base, funnel and aluminium clamp. Hose connector is designed for tubing  $\varnothing_{\text{inner}}$  6 mm

reference	description	pcs/pack	price/pack
FUC3-1K0-001	complete set with 1000 ml flask	1	
FUC3-2K0-001	complete set with 2000 ml flask	1	
Accessories and spare parts			
FU13-1K0-001	ground joint flask 40/35 1000 ml	1	
FU13-2K0-001	ground joint flask 40/35 2000 ml	1	
FU23-1K0-001	fritted glass support base	1	
FU3M-000-001	aluminum clamp	1	
FU43-250-001	funnel, 300 ml	1	



bb



bb



ULINSCO



### Glass filter holder for 90 mm disc filters

Made of top quality 3.3 borosilicate glass. Contains base and tubulated cap, PTFE-coated stainless steel screen, funnel and aluminium clamp. Flask is not included (see any 40/35 ground joint flask)

reference	description	pcs/pack	price/pack
FUC3-090-001	glass filter holder for 90 mm disc filters	1	
Accessories and spare parts			
FU23-090-001	base and tubulated cap	1	
FU23-09T-001	stainless steel screen, PTFE coated	1	
FU23-09G-001	gasket PTFE	1	
FU43-1K0-001	funnel, 1000 ml, for 90 mm filter holder	1	
FU3M-090-001	aluminium clamp, 90 mm	1	



### Ground joint filter flask 40/35

Made of top quality 3.3 borosilicate glass

reference	description	pcs/pack	price/pack
FU13-1K0-001	ground joint flask 40/35 1000 ml	1	
FU13-2K0-001	ground joint flask 40/35 2000 ml	1	
FU13-5K0-001	ground joint flask 40/35, conical bottom, 5000 ml	1	



### Stainless steel filter manifold

Available in 3 or 6 positions. The manifold includes a hose connector for a tubing with internal diameter 10 mm. Can be connected to any filter holder bearing a stopper size #8, such as FUC3-047-001 or FUSS-047-001

reference	description	pcs/pack	price/pack
MNFA-003-001	stainless steel filter manifold, 3 branches	1	
MNFA-006-001	stainless steel filter manifold, 6 branches	1	

clink



### Filter holder for 25 mm disc filters

Made of top quality 3.3 borosilicate glass. Contains base with fritted glass holder, silicone stopper #5 (Ø<sub>upper</sub> 27 mm y Ø<sub>lower</sub> 23 mm), funnel and aluminium clamp. Can be completed with Filtering flask FFE3-100-002

reference	description	pcs/pack	price/pack
FUC3-025-001	filter holder for 25 mm disc filters	1	
Accessories and spare parts			
FU23-025-001	fritted glass base, 25 mm	1	
FU43-015-001	funnel, 15 ml, for 25 mm filter holder	1	
FU23-005-001	silicone stopper #5	1	
FU3M-025-001	aluminium clamp, 25 mm	1	





### Filter holder for 47 mm disc filters

Made of top quality 3.3 borosilicate glass. Includes base with fritted glass holder, silicone stopper #8 ( $\varnothing_{\text{upper}}$  41 mm y  $\varnothing_{\text{lower}}$  33 mm), funnel and aluminium clamp. Can be completed with Filtering flask FFE3-1K0-002 or a Filter manifold

reference	description	pcs/pack	price/pack
FUC3-047-001	filter holder for 47 mm disc filters	1	
Spare parts			
FU23-047-001	fritted glass base, 47 mm	1	
FU43-251-001	funnel, 300 ml,	1	
FU23-008-001	silicone stopper #8	1	
FU3M-001-001	aluminium clamp	1	

clink



### Stainless steel filter holder for 47 mm disc filters

Includes stainless steel holder, support screen and funnel (300 ml), silicone stopper #8 ( $\varnothing_{\text{upper}}$  41 mm y  $\varnothing_{\text{lower}}$  33 mm) and aluminium clamp. Can be connected to any filter holder bearing a stopper size #8

reference	description	pcs/pack	price/pack
FUSS-047-001	stainless steel filter holder for 47 mm disc filters	1	
Spare parts			
FUSS-A01-001	stainless steel support screen, 47 mm	1	
FUSS-A04-001	stainless steel funnel, 300 ml	1	
FUSS-A02-001	silicone stopper #8	1	
FUSS-A03-001	aluminium clamp	1	

PRAT DUMAS

### Thimbles for soxhlet extractors

Made of pure cellulose, neutral cotton, without fat, without any type of binder resin that could contaminate the sample



reference	$\varnothing_{\text{inner}}$ (mm)	$\varnothing_{\text{outer}}$ (mm)	h (mm)	pcs/pack	price/pack	average price/pc
EXTH-18A-025	18	21	60	25		
EXTH-19B-025	19	22	80	25		
EXTH-22A-025	22	25	60	25		
EXTH-22B-025	22	25	80	25		
EXTH-25B-025	25	29	80	25		
EXTH-26A-025	26	30	60	25		
EXTH-27B-025	27	31	80	25		
EXTH-28B-025	28	32	80	25		
EXTH-28C-025	28	32	100	25		
EXTH-30B-025	30	34	80	25		
EXTH-30C-025	30	34	100	25		
EXTH-33B-025	33	37	80	25		
EXTH-33C-025	33	37	100	25		
EXTH-33G-025	33	37	118	25		
EXTH-33D-025	33	37	130	25		
EXTH-37D-025	37	42	130	25		
EXTH-41H-025	41	46	123	25		
EXTH-41E-025	41	46	150	25		

### Soxhlet extraction apparatus with 30 ml extractor body

Made of borosilicate glass LBG 3.3. The complete apparatus includes a Dimroth condenser (DRO3-030-001), a 30 ml extractor (EXB3-030-001) and a 100 ml flat bottom flask (BFF3-101-001). The most adequate thimble reference is EXTH-22B-025. According to DIN 12602

reference	ground (a)	ground (b)	description	pcs/pack	price/pack
SOX3-030-001	29/32	29/32	full set	1	
Spare parts					
DRO3-030-001		29/32	Dimroth condenser	1	
EXB3-030-001	29/32	29/32	30 ml extractor body	1	
BFF3-101-001	29/32		100 ml flat bottom flask	1	

### Soxhlet extraction apparatus with 100 ml extractor body

Made of 3.3 borosilicate glass (upper grade). The complete apparatus includes a Dimroth condenser (DROG-100-001), extractor (EXBG-100-001) and flat bottom flask (BFFG-250-001). The most adequate thimble reference is EXTH-33B-025. According to DIN 12602

reference	ground (a)	ground (b)	description	pcs/pack	price/pack
SOH3-100-001	29/32	45/40	full set	1	
Spare parts					
DROG-100-001	45/40		Dimroth condenser	1	
EXBG-100-001	29/32	45/40	100 ml extractor body	1	
BFFG-250-001	29/32		250 ml flat bottom flask	1	
BFLG-250-001	29/32		250 ml round bottom flask	1	

### Soxhlet extraction apparatus with 250 ml extractor body

Made of 3.3 borosilicate glass (upper grade). The complete apparatus includes a Dimroth condenser (DROG-250-001), an extractor (EXBG-250-001) and flat bottom flask (BFFG-500-001). The most adequate thimble reference is EXTH-33D-025. According to DIN 12602

reference	ground (a)	ground (b)	description	pcs/pack	price/pack
SOH3-250-001	29/32	45/40	full set	1	
Spare parts					
DROG-250-001		45/40	Dimroth condenser	1	
EXBG-250-001	29/32	45/40	250 ml extractor body	1	
BFFG-500-001	29/32		500 ml flat bottom flask	1	
BFLG-500-001	29/32		500 ml round bottom flask	1	

### Soxhlet extraction apparatus with 500 ml extractor body

Made of borosilicate glass LBG 3.3. The complete apparatus includes a Dimroth condenser (DROG-500-001), and extractor (EXBG-500-001) and a flat bottom flask (BFFG-1K0-001). The most adequate thimble reference is EXTH-41E-025. According to DIN 12602

reference	ground (a)	ground (b)	description	pcs/pack	price/pack
SOH3-500-001	29/32	60/46	full set	1	
Spare parts					
DROG-500-001		60/46	Dimroth condenser	1	
EXBG-500-001	29/32	60/46	500 ml extractor body	1	
BFFG-1K0-001	29/32		1000 ml flat bottom flask	1	
BFLG-1K0-001	29/32		1000 ml round bottom flask	1	

LBG



lbx

**“Rotary Evaporator, LBX EVA 180-B series**

NEW



Set of vertical glassware included (REVA-A01-001). Speed range from 20 to 200 rpm. 5 L water-oil heating universal bath with heating temperature range of RT to 180 °C, with a precise temperature control ( $\pm 1^\circ\text{C}$  in water) and that can be used independently.

LED screen that displays heating temperature, rotation speed and timing. Patented condenser with excellent cooling effect (cooling surface 1700 cm<sup>2</sup>).

Manual lift combined with auxiliary lift for precise positioning of the glassware. Evaporating flask with an ejector, easy to remove.

Chemically resistant double PTFE system and patented pressure spring provide excellent sealing. External dimensions (mm): 440 x 320 x 450 (main unit) and 300 x 300 x 240 (heating bath). Weight: 7 kg (main unit) and 3 kg (heating bath). 100-240 V / 50-60 Hz, insulation rating IP20 (DIN EN60529). Warranty 2 years.

It is recommended to combine with the vacuum pump VACU-R20-001. The most suitable vacuum rubber tubing reference is RUTT-006-002

reference	description	pcs/pack	price/pack
REVB-180-001	rotary evaporator, LBX EVA180-B series	1	

lbx

**“Rotary Evaporator, LBX EVA180 series**

Set of vertical glassware included (REVA-A01-001). Speed range from 20 to 280 rpm. Large 5 L water-oil heating bath with heating temperature range of RT to 180 °C, with precise temperature control ( $\pm 1^\circ\text{C}$  in water) and adjustable safety circuit.

Large and easy to read digital LCD screen displays heating temperature, rotation speed and timing. Patented condenser with excellent cooling effect (cooling surface 1700 cm<sup>2</sup>).

Motorized lift with quick-action, automatic release of evaporating flask to top position in case of power failure. Adjustable final position recognition to protect operator and sample against breakage. Evaporating flask with an ejector, easy to remove.

Chemically resistant double PTFE system and patented pressure spring provide excellent sealing. External dimensions (mm): 583x465x457. Weight (Kg): 15. PC can control and document all parameters via RS232 interface (USB). 100-240 V / 50-60 Hz, insulation rating IP20 (DIN EN60529). Warranty 2 years.

It is recommended to combine with the vacuum pump VACU-R20-001. The most suitable vacuum rubber tubing reference is RUTT-006-002

reference	description	pcs/pack	price/pack
REVA-180-001	rotary evaporator, LBX EVA180 series	1	

lbx

**Accessories and spare parts for rotary evaporators**

For the REVA-180-001 and REVB-180-001 rotary evaporators

reference	description	pcs/pack	price/pack
REVA-A01-001	set of vertical glassware, including condenser, evaporating flask (29/32) and receiving flask (35/20) Volume: 1000 ml	1	
REVA-A02-001	receiving flask (35/20), 1000 ml	1	
REVA-A03-001	vapor tube (29/32)	1	
REVA-A04-001	vacuum seal	1	





### Water vacuum pump with check valve

Integrated non-return valve. Made of borosilicate glass LBG 3.3

reference	Ø connector (mm)	h (mm)	Ø side hose (mm)	type	pcs/pack	price/pack
VPU3-018-001	18	150	9	borosilicate glass LBG 3.3	1	

### Connection kit for water vacuum pump

Allows to fix the water vacuum (VPU3-018-001) to the faucet

reference	type	pcs/pack	price/pack
VPUA-001-001	includes 30 cm of tube and 2 tubing ties	1	

### Water vacuum pump with check valve, polypropylene

Integrated non-return valve. Can be dismantled easily for cleaning. Autoclavable at 121 °C

reference	Ø connector (mm)	h (mm)	Ø side hose (mm)	type	pcs/pack	price/pack
VPUP-001-001	13,5	190	9	polypropylene	1	

Spare parts

VPUP-A01-001	spare tube conector for VPUP-001-001	1	
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### Hand operated vacuum pump

Made of high impact polystyrene. Can reach a vacuum of up to 652 mm Hg pumping manually. With hose connector for tubing with internal Ø 6 mm, for example Ref. RUTT-006-002

reference	type	pcs/pack	price/pack
VACU-H01-001	without vacuum gauge	1	
VACU-H02-001	with vacuum gauge	1	

LBG



astik's



Kartell



Kartell



## NEW PRODUCT!

### Rotary Evaporator, LBX EVA 180-B

Attractive price

Ideal for education and laboratories

Digital screen

Patented condenser with excellent cooling effect

Overtemperature protection



**lbx**


### Vacuum pump, LBX instruments, V series

For filter units, filtering flasks, desiccators and other laboratory applications. Compact and light weight. Piston powered vacuum pump, 100% oil-free transfer, clean and maintenance free. Silent running (50 dB). Over flow and thermal protection. Motor rotation: 1450 rpm. 220V/50Hz. 2 year warranty. It is recommended to combine vacuum pumps with a vacuum trap, essential in those cases where you work with a filter manifold

reference	flow rate at atm. pres.	max. vacuum	max. power	connector for tube	valve + vac. gauge	pcs/pack	price/pack
VACU-V10-001	18 l/min	-670 mmHg	60 W	Ø 8 mm	yes	1	
VACU-V20-001	20 l/min	-730 mmHg	80 W	Ø 8 mm	yes	1	
VACU-V40-001	68 l/min	-670 mmHg	200 W	Ø 10 mm	yes	1	

**lbx**


### Chemically resistant vacuum pump, LBX instruments, R series

Chemically resistant pump therefore suitable for highly aggressive or corrosive gases and vapours because all wetted parts are made of PTFE material. For filter units, SPE, gel electrophoresis, rotary evaporator (only VACU-R20-001). Compact and light weight. 100% oil-free transfer, clean and maintenance free. Silent running (50 dB). Thermal protection. Motor rotation: 1450 rpm. 220V/50Hz. 2 year warranty. See the spare parts available for these devices on our website: [www.labbox.com](http://www.labbox.com)

reference	flow rate at atm. pres.	max. vacuum	max. power	connector for tube	valve + vac. gauge	pcs/pack	price/pack
VACU-R10-001	18 l/min	-670 mmHg	60 W	Ø 8 mm	no	1	
VACU-R20-001	18 l/min	-750 mmHg	90 W	Ø 8 mm	no	1	

**lbx**


### "Accessories and spare parts for vacuum pumps LBX instruments

See other spare parts available for these vacuum pumps on our website: [www.labbox.com](http://www.labbox.com)

reference	description	pcs/pack	price/pack
VACU-S01-001	repair kit for VACU-V10-001	1	
VACU-S02-001	repair kit for VACU-V20-001	1	
VACU-S03-001	repair kit for VACU-R10-001	1	
VACU-S04-001	repair kit for VACU-R20-001	1	
VACU-S05-001	prote™ filter cartridge (overflow protection) for VACU-V10 and -V20 pumps	1	
VACU-S06-001	glass moisture trap/ vacuum regulator for VACU-R10 and -R20 pumps	1	
VACU-S08-001	glass moisture trap/ vacuum regulator for VACU-V10 and -V20 pumps	1	
VACU-S10-001	muffler (Air outlet) for V10 and V20 series	1	
VACU-S12-001	repair kit for VACU-V40-001	1	
VACU-S13-001	glass moisture trap/ vacuum regulator for VACU-V40 pumps	1	
VACU-S14-001	prote™ filter cartridge (overflow protection) for VACU-V40 pumps	1	
VACU-S15-001	hose barb, 1/8 PT, 6/16 in.(9.5mm) for VACU-V10 and V20	1	
VACU-S16-001	hose barb, 1/8 PT, 5/16 in.(8mm) for VACU-V10 and V20	1	
VACU-S17-001	hose barb, 1/8 PT, 4/16 in.(6.4mm) for VACU-V10 and V20	1	
VACU-S18-001	hose barb for VACU-R10 and R20	1	

**astik's**


### Polycarbonate vacuum trap

Collecting recipient that prevents contaminants from migrating into the vacuum pump and prevents vapors from being emitted back into the laboratory system. Made of resistant PC plastic. With entrance and exit ports for connecting tubes

reference	capacity	dimensions (length x width x height)	connector for tube	pcs/pack	price/pack
VTRA-01L-001	1 L	14 x 15 x 23 cm	Ø 9,4 mm	1	
VTRA-02L-001	2 L	14 x 15 x 33 cm	Ø 9,4 mm	1	
VTRA-04L-001	4 L	23 x 17 x 34 cm	Ø 10,4 mm	1	

**NEW**

### Rubber vacuum tubing

Natural rubber, red

reference	∅ <sub>inner</sub> (mm)	∅ <sub>outer</sub> (mm)	type	meters per roll	per roll	FYI: per meter
RUTT-004-002	4	10	for 4/5 hose	2		
RUTT-006-002	6	16	for 8/9 hose	2		
RUTT-008-002	8	16	for 9/10 hose	2		
RUTT-010-002	10	22	for 12/13 hose	2		
"Saving package"						
RUTT-004-010	4	10	for 4/5 hose	10		
RUTT-006-010	6	16	for 8/9 hose	10		
RUTT-008-010	8	16	for 9/10 hose	10		
RUTT-010-010	10	22	for 12/13 hose	10		

bb



### Silicone tubing, translucent

For lab applications where liquids must be transferred. Service temperature from -60 up to +200 °C. Certificate of biocompatibility USP Class VI. Meets FDA and BgVV positive lists.

reference	Ø <sub>inner</sub> (mm)	Ø <sub>outer</sub> (mm)	meters per roll	per roll	FYI: per meter
SILT-001-005	1	3	5		
SILT-002-005	2	4	5		
SILT-004-005	4	8	5		
SILT-006-005	6	10	5		
SILT-008-005	8	12	5		
SILT-010-005	10	14	5		
SILT-012-005	12	16	5		
SILT-014-005	14	20	5		
SILT-016-005	16	20	5		
"Saving package"					
SILT-001-025	1	3	25		
SILT-002-025	2	4	25		
SILT-004-025	4	8	25		
SILT-006-025	6	10	25		
SILT-008-025	8	12	25		
SILT-010-025	10	14	25		
SILT-012-025	12	16	25		
SILT-014-025	14	20	25		
SILT-016-025	16	20	25		

bb



### PTFE tubing

Excellent chemical and thermal resistance (from -200 to 260 °C)

reference	∅ <sub>inner</sub> (mm)	∅ <sub>outer</sub> (mm)	meters per roll	per roll	FYI: per meter
TEFT-002-005	2	4	5		
TEFT-004-005	4	6	5		
TEFT-006-005	6	8	5		
TEFT-008-005	8	10	5		
TEFT-010-005	10	12	5		

bb

