

Cellulose extraction thimbles

Separation of compose made of solid material in extractors



Description

FILTER-LAB® cellulose extraction thimbles are made of fibre of noble cellulose and linters of cotton that are completely free from impurities.

Frequently used in Soxhlet, Tecator or similar type extractors. Located in the inside of the extractor body, use to accommodate a sample solid material from which component must be separated by the addition of sufficient solvent.

Sometimes, is necessary to get a more precise filtration or even have a more resistant thimble to some solvent. Likewise, two qualities are manufactured by the thimble's wall thickness:

Ref. 1800. Standard thickness: 1-2 mm. Medium filtration.

Ref. 1880. Double thickness: 2-4 mm. Medium-slow filtration.

APPLICATIONS

- Determination by extraction of the content of free lipids in food.
- Extraction of sulphur in gaseous masses.
- Extraction and quantification of components in industrial products: paint, animal fat, cosmetics, pavements, varnishes, lacquers, etc.
- Dimensions of dust in air or industrial gases.
- Determination of resin and fat in the wood and their derivatives.



Correct selection of the dimensions of an extraction thimble for Soxhlet extractors.

- Length: placed with the mouth upwards, the thimble must stop at the upper part of the siphon opening.

- Inner diameter: the sum of the inner diameter of the thimble plus the thickness of the wall must be less by 2 or 3 mm than the corresponding inner diameter of the extractor body.

In Tecator extractors or similar the measures are what every equipment demands.

Thimble's dimensions, standard thickness ref.1800



10 x 50	16 x 100	19 x 90	20 x 45	22 x 50	22 x 60	22 x 80	22 x 100	24 x 110	25 x 65	25 x 70	25 x 80	25 x 100
26 x 60*	27 x 80	27 x 100	28 x 80	28 x 100	30 x 60	30 x 77	30 x 80	30 x 100	33 x 80	33 x 94	33 x 100	33 x 118
35 x 50	35 x 60	35 x 80	35 x 100	35 x 110	35 x 150	40 x 100	40 x 123	43 x 123	48 x 145	50 x 160	53 x 145	60 x 120
68 x 250	75 x 160	90 x 180	90 x 210									

Wall's thickness: Between 1 and 2 mm

Dimensions: Inner diameter x length in mm

Presentation: Packs of 25 units

* Special dimension Tecator: Inner diameter x length in mm

Double Thick Thimble's dimensions ref.1880



19 x 90	22 x 80	25 x 100	28 x 100	30 x 100	33 x 80	33 x 94	33 x 100	35 x 100	60 x 120	68 x 250	75 x 160	90 x 180
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Wall's thickness: Between 2 and 4 mm

Dimensions: Inner diameter x length in mm

Presentation: Packs of 25 units

Information for orders. Cellulose extraction thimbles, standard thickness ref. 1800

Dimensions mm Ø	Code	units/pack
10 x 50	CC1050	25
16 x 100	CC16100	25
19 x 90	CC1990	25
22 x 50	CC2250	25
22 x 60	CC2260	25
22 x 80	CC2280	25
22 x 100	CC22100	25
24 x 110	CC24110	25
25 x 65	CC2565	25
25 x 70	CC2570	25
25 x 80	CC2580	25
25 x 100	CC25100	25
26 x 60*	CC2660	25
27 x 80	CC2780	25
27 x 100	CC27100	25
28 x 80	CC2880	25
28 x 100	CC28100	25
30 x 60	CC3060	25
30 x 77	CC3077	25
30 x 80	CC3080	25
30 x 100	CC30100	25

Dimensions mm Ø	Code	units/box
33 x 80	CC3380	25
33 x 94	CC3394	25
33 x 100	CC33100	25
33 x 118	CC33118	25
35 x 50	CC3550	25
35 x 60	CC3560	25
35 x 80	CC3580	25
35 x 100	CC35100	25
35 x 110	CC35110	25
35 x 150	CC35150	25
40 x 100	CC40100	25
40 x 123	CC40123	25
48 x 145	CC48145	25
50 x 160	CC50160	25
53 x 145	CC53145	25
60 x 120	CC60120	25
68 x 250	CC68250	25
75 x 160	CC75160	25
90 x 180	CC90180	25
90 x 210	CC90210	25

Information for orders. Cellulose extraction thimbles, double thick ref. 1880

Dimensions mm Ø	Code	units/pack
19 x 90	CCDG1990	25
22 x 80	CCDG2280	25
25 x 100	CCDG25100	25
28 x 100	CCDG28100	25
30 x 100	CCDG30100	25
33 x 80	CCDG3380	25
33 x 94	CCDG3394	25
33 x 100	CCDG33100	25
35 x 100	CCDG35100	25
60 x 120	CCDG60120	25
68 x 250	CCDG68250	25
75 x 160	CCDG75160	25
90 x 180	CCDG90180	25

Glass microfiber thimbles ref. 1900

Recommended on aerosols analysis, particles analysis and extraction analyses.



APPLICATIONS

- Control of emission in industrial smokestacks.
- Extractions with very aggressive solvents.
- Pre-filtration of gases in analyzers.
- Gravimetric analysis of dust in gases.

Metal traces (ppm)

As	Cd	Cr	Cu	Fe	Mn	Ni	Pb
3	0.03	12	3	400	20	4	3

Sb	V	Zn
2	1	50

Description

In the same way that the glass microfiber filters, glass microfiber extraction thimbles FILTER-LAB® fibers are made from borosilicate 100% free of binders.

Possess the same characteristics as the filters of this material, i.e. chemical stability, maximum operating temperature to 500 ° C, high air flow permeability, good retention capacity and particle weight and stability. This makes it very suitable for use in emission controls at high temperature gas analyzers pre-filtration, gravimetric analysis, etc.

In case that the analyzed gases having high acidic or alkaline concentration or the temperature exceeds 500 ° C then we advise the quartz microfiber extraction thimbles FILTER-LAB®.

Technical specifications

		% a 0.3 μ m	% a 0.3 μ m		
1900	Glass microfiber	99.998	< 0.002	500°C	No
MFV4	120	0.53		99.998	

Glass microfiber filters' dimensions ref. 1900



10 x 50	19 x 90	22 x 80	26 x 60	26 x 80	30 x 80	30 x 100	33 x 80	33 x 94	35 x 150	43 x 123	53 x 145
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Dimensions: Diameter inside x length in mm
Presentation: Packs of 25 units

Information for orders. Glass microfiber filters ref. 1900

Ø inside x length (mm)	Code	units/pack
10 x 50	CB1050	25
19 x 90	CB1990	25
22 x 80	CB2280	25
26 x 60	CB2660	25
26 x 80	CB2680	25
30 x 80	CB3080	25
30 x 100	CB30100	25
33 x 80	CB3380	25
33 x 94	CB3394	25
35 x 150	CB35150	25
43 x 123	CB43123	25
53 x 145	CB53145	25

Quartz microfiber filters ref.CQ2000

Analysis of emission with aggressive gases or very high temperature



APPLICATIONS

- Control of emissions in industrial smokestacks with isokinetic probes or temperatures up to 900°C.
- Gravimetric calculations in gases.

Metal traces (ppm)

Al	As	Cd	Co	Cr	Cu	Fe	Hg
50	0.75	1.5	1	5	1.25	30	<0.05

Mg	Mn	Na	Ni	Pb	Sb	Sn	Ti
1.25	25	40	2	0.75	1.25	0.5	2.5

V	Zn
0.5	5

Description

Made with pure (SiO₂), quartz microfibers completely free of bonding agents and later treated at high temperatures. Quartz fiber thimbles have enjoyed high demand over the last years due to the growing social concern over atmospheric contamination and the environment in general.

They have the same properties as quartz microfiber filters but its thimble the format makes it specially indicated in controls of emission in industrial smokestacks by means of isokinetic probes. Are also used for the retention of dust particles suspended in gases, aerosols, or generally in any analysis where a thimble resistant to high temperatures (up to 900°C) or chemically compatible with gases where high acid concentration is required (except HF)

Technical specifications

Ref.	Composition	Retention % a 0.3 μm	DOP Penetration % a 0.3 μm	Max. Temperature	Binders
CQ2000	Quartz microfiber	99.998	< 0.002	900°C	No

Quartz microfiber thimble's dimension ref. CQ2000



19 x 90	22 x 65	22 x 70	25 x 70	25 x 100	26 x 60	30 x 77	30 x 80	30 x 100	30 x 110	34 x 150	35 x 150	43 x 123
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Dimensions: Inner diameter x length in mm
Presentation: Packs of 25 units

Information for orders. Quartz microfiber thimbles ref. CQ2000

Ø int x length (mm)	Code	units/box
19 x 90	CQ20001990	25
22 x 65	CQ20002265	25
22 x 70	CQ20002270	25
25 x 70	CQ20002570	25
25 x 100	CQ200025100	25
26 x 60	CQ20002660	25
30 x 77	CQ20003077	25
30 x 80	CQ20003080	25
30 x 100	CQ200030100	25
30 x 110	CQ200030110	25
34 x 150	CQ200034150	25
35 x 150	CQ200035150	25
43 x 123	CQ200043123	25