

1.6 EXTRACTION THIMBLES

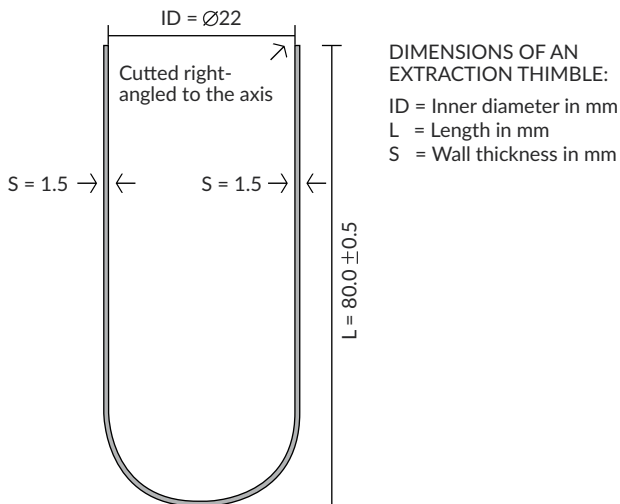
CHM® extraction thimbles are manufactured in three versions:

1. High purity cellulose
2. Pure borosilicate glass microfiber
3. High purity quartz microfiber

They are used for reliable and fast analysis in the pharmaceutical formulations, food controls and environmental monitoring. The extraction thimbles are suitable for Soxhlet-type, Tecator type or similar devices.

They are located in the extractor body, used to accommodate a sample of solid material to extract certain components out, with the addition of an appropriate solvent.

e.g. F5800-2208



Cellulose extraction thimbles

CHM® F5800 high quality Cellulose Extraction Thimbles are made from high-alpha cellulose cotton linters with rounded bottom.

Their main features of high purity and the strong mechanical structure and retentivity offer a special combination of advantages to the laboratory user. Indicated for fat extraction in food industry, extraction of polymers, environmental pollutants determination, etc.

Maximum working temperature 120°C.

They are usually used in extractors of the "Soxhlet", "Tecator" or similar types, in order to collect solid material from which some component must be separated out by dissolving in a suitable solvent.

The thimbles size selection should be done carefully to fit extractors correctly. The references sizes are internal diameter and the length in mm (an extra allowance for wall thickness should be added when selecting external diameters).

Tolerances according to DIN 12449:

- Internal diameter +0/-3mm
- Thimble height ±1mm
- Wall thickness 1.5 ±0.5mm
- Ash content <0.1%



ORDER INFORMATION					
SIZE (mm) Int x lenght	ORDER NUMBER	SIZE (mm) Int x lenght	ORDER NUMBER	SIZE (mm) Int x lenght	ORDER NUMBER
25/box					
10x50	F5800-10050	26x60 T	F5800-26060T	33x94*	F5800-33094
19x90	F5800-19090	27x80	F5800-27080	33x100	F5800-33100
20x80	F5800-20080	28x22***	F5800-28022	33x118	F5800-33118
22x80*	F5800-22080	28x100	F5800-28100	35x100	F5800-35100
22x100	F5800-22100	30x77	F5800-30077	35x150	F5800-35150
25x60	F5800-25060	30x80	F5800-30080	40x123	F5800-40123
25x80	F5800-25080	30x100	F5800-30100	43x123	F5800-43123
25x100*	F5800-25100	33x80**	F5800-33080	48x145	F5800-48145

* Fits Büchi B-811 | ** Fits Gerhard Soxterm Automatic, Foss Tecator Systems, Velp Solvent Extractors | *** Fits Foss Soxtec 2050

Glass microfiber thimbles

CHM® F5900 high quality glass microfiber thimbles are made from 100% pure borosilicate fibers. They have special advantages since no binders of any kind are used in their manufacture process.

They are particularly suitable when solvents that are incompatible with cellulose thimbles are present. They are widely used for gas emission controls for industrial chimneys, for gas pre-filtration upstream of measuring apparatus, for gravimetric testing for dust in hot gases, etc. Maximum operating temperature for glass microfiber 500°C.

They have all the associated properties (high loading capacity, high retention of very small particles, high air permeability and good stability at high temperatures) and the same limitation when working with highly concentrated acid or alkaline solutions, for which the use of CHM® F5990 micro-quartz extraction thimbles is recommended.

Tolerances for F5900 glass microfiber thimbles:

- Internal diameter +1/-3mm
- Thimble height ± 1 mm
- Wall thickness 2 ± 0.5 mm



TECHNICAL SPECIFICATIONS			
GRADE	PENETRATION % (0.3 µm)	MAXIMUM TEMPERATURE (°C)	BINDER
F5900	<0.002	500	NO

ORDER INFORMATION	
SIZE (mm) (*) Int x lenght	ORDER NUMBER
25/box	
10x50	F5900-10050
19x90	F5900-19090
22x80	F5900-22080
26x60	F5900-26060
30x80	F5900-30080
30x100	F5900-30100
33x80	F5900-33080
33x94	F5900-33094
33x150	F5900-33150
43x123	F5900-43123
53x145	F5900-53145



(*) Other sizes are available under request.

Quartz microfiber thimbles

CHM® F5990 thimbles are made from high purity quartz microfiber. These thimbles are able to withstand high temperatures (up to 900°C), and meet the highest requirements for purity, especially because of their low heavy metal content.

Suitable for both solvent extraction and air sampling applications.

Tolerances for F5990 micro-quartz extraction thimbles:

- Internal diameter +0/-3mm
- Thimble height ±1mm
- Wall thickness 2 ±0.5mm

TECHNICAL SPECIFICATIONS			
GRADE	PENETRATION % (0.3 µm)	MAXIMUM TEMPERATURE (°C)	BINDER
F5990	<0.002	900	NO

ORDER INFORMATION	
SIZE (mm) (*) Int x lenght	ORDER NUMBER
25/box	
19x90	F5990-19090
25x80	F5990-25080
25x100	F5990-25100
30x77	F5990-30077
30x100	F5990-30100
33x94	F5990-33094



(*) Other sizes are available under request.