

# Specialty Products

Whatman offers a range of specialty products to meet your specific testing requirements. Made with traditional Whatman quality, these products combine ease of use with unsurpassed accuracy and consistency.

## Extraction Thimbles

Whatman cellulose and glass microfiber extraction thimbles are known for their purity and consistent high quality. The thimbles are widely used in Soxhlet extraction units, providing a safe, convenient, and efficient method of solvent extraction of solids and semi-solids. Soxhlet extraction is a widely used technique for the analysis of fats or pesticides in foods and soil materials as well as in many other procedures that involve a solid-liquid extraction.

### Cellulose Extraction Thimbles

#### *High-Performance Cellulose Extraction Thimbles*

Cellulose extraction thimbles are produced from high-quality alpha cellulose cotton linter and have excellent mechanical strength and retention.

Standard single thickness thimbles have a wall thickness of approximately 1 mm (10.0  $\mu\text{m}$  nominal particle retention).

Double thickness thimbles have a wall thickness of approximately 2 mm (6.0  $\mu\text{m}$  nominal particle retention) for applications where higher retention and increased wet or dry strength, or rigidity are required.

The high purity of the materials ensures reliable and reproducible analytical results.

#### **Standard Cellulose Extraction Thimbles**

Thimbles of type 603 are made from high-quality cellulose and 603 g thimbles are made from borosilicate glass fibers with an inorganic binder. For all automated extraction apparatus in common use, Whatman offers thimbles whose dimensions are matched exactly to those of the thimble holders to ensure optimal fit.

#### **Thimble Size Selection Guide**

Thimble sizes should be selected carefully to fit extractors correctly. The different sizes represent the established practice of showing the internal diameter and overall length of the thimble in millimeters. Therefore, an extra allowance for wall thickness should be made when calculating external diameters. The thimble should pass through the narrower end of the upper extractor socket, allowing 1-2 mm clearance, and be 5-10 mm above the level of the top of the siphon tube.



## Technical Data – Standard Extraction Thimbles

Grade	Material	Maximum Temperature °C
603	Cellulose	120
603 g	Borosilicate glass fibers*	500

\* With inorganic binder

## Ordering Information – High-Performance Cellulose Extraction Thimbles

Dimensions (mm)* †	Catalog Number	Quantity/Pack
<b>Single Thickness (Wall = 1 mm)</b>		
10 × 50	2800-105	25
18 × 55	2800-185	25
19 × 90	2800-199	25
22 × 65	2800-226	25
22 × 80	2800-228	25
25 × 80	2800-258	25
25 × 90	2800-259	25
25 × 100	2800-250	25
26 × 60	2800-266**	25
26 × 100	2800-260	25
28 × 80	2800-288	25
28 × 100	2800-280	25
28 × 120	2800-282	25
30 × 77	2800-307	25
30 × 80	2800-308	25
30 × 100	2800-300	25
33 × 80	2800-338	25
33 × 94	2800-339	25
33 × 100	2800-330	25
33 × 118	2800-331	25
37 × 130	2800-373	25
41 × 123	2800-412	25
43 × 123	2800-432	25
60 × 180	2800-608	25
<b>Double Thickness (Wall = 2 mm)</b>		
16 × 60	2810-166	25
22 × 80	2810-228	25
25 × 80	2810-258	25
26 × 60	2810-266	25
33 × 80	2810-338	25
33 × 94	2810-339	25
43 × 123	2810-432	25

\* Internal diameter and external length

\*\* Fits Soxtec™ extractor

† See Thimble Size Selection Guide on p. 168



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