

EXTRACTION THIMBLES

GVS extraction thimbles are manufactured in three versions:

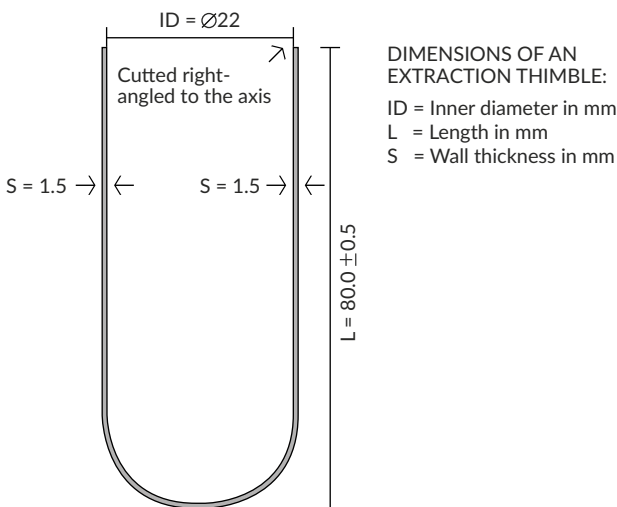
1. High purity cellulose
2. Pure borosilicate glass microfiber
3. High purity quartz microfiber

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. ET22080CC0Q00



DIMENSIONS OF AN EXTRACTION THIMBLE:
 ID = Inner diameter in mm
 L = Length in mm
 S = Wall thickness in mm



Cellulose extraction thimbles

GVS 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 $+0/-3\text{mm}$
- Thimble height $\pm 1\text{mm}$
- Wall thickness $1.5 \pm 0.5\text{mm}$
- Ash content $<0.1\%$



ORDER INFORMATION					
SIZE (mm) Int x length	ORDER NUMBER	SIZE (mm) Int x length	ORDER NUMBER	SIZE (mm) Int x length	ORDER NUMBER
25/box					
16x100	ET16100CC0Q00	28x22***	ET28022CC0Q00	33x118	ET33118CC0Q00
19x90	ET19090CC0Q00	28x100	ET28100CC0Q00	35x100	ET35100CC0Q00
20x80	ET20080CC0Q00	30x77	ET30077CC0Q00	35x150	ET35150CC0Q00
22x80*	ET22080CC0Q00	30x80	ET30080CC0Q00	40x123	ET40123CC0Q00
25x60	ET25060CC0Q00	30x100	ET30100CC0Q00	43x123	ET43123CC0Q00
25x80	ET25080CC0Q00	33x80**	ET33080CC0Q00	60x80	ET60080CC0Q00
25x100*	ET25100CC0Q00	33x94*	ET33094CC0Q00		
26x60 T	ET26060CCTQ00	33x100	ET33100CC0Q00		

Glass micro fiber thimbles

GVS 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 GVS micro-quartz extraction thimbles is recommended.

Tolerances for glass microfiber thimbles:

- Internal diameter $\pm 1/-3$ mm
- Thimble height ± 1 mm
- Wall thickness 2 ± 0.5 mm



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

ORDER INFORMATION	
SIZE (mm) (*) Int x length	ORDER NUMBER
25/box	
19x90	ET19090GF0Q00
22x80	ET22080GF0Q00
25x80	ET25080GF0Q00
26x60	ET26060GF0Q00
30x80	ET30080GF0Q00
30x100	ET30100GF0Q00
33x80	ET33080GF0Q00
33x94	ET33094GF0Q00
35x150	ET35150GF0Q00
43x123	ET43123GF0Q00



(*) Other sizes are available under request.

Quartz micro fiber thimbles

GVS 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 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)
Quartz Microfiber Thimbles	<0.002	900

ORDER INFORMATION	
SIZE (mm) (*) Int x length	ORDER NUMBER
25/box	
19x90	ET19090QZ0Q00
25x80	ET25080QZ0Q00
25x100	ET25100QZ0Q00
30x100	ET30100QZ0Q00

(*) Other sizes are available under request.

