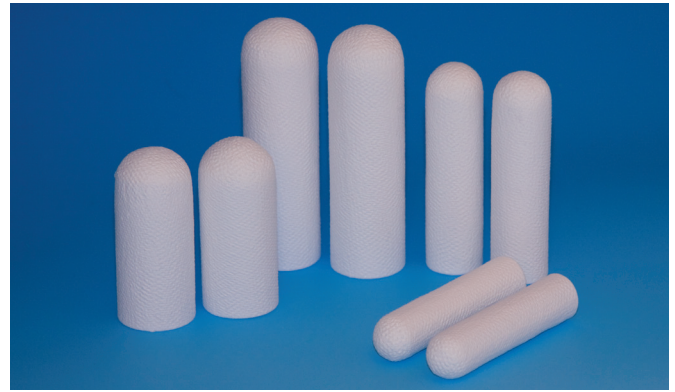


Extraction Thimbles

- Cellulose extraction thimbles made of pure cotton linters completely free from impurities and are fat free.
- Thimbles hold solid material from which certain substances are eluted e.g. fat from foodstuffs.
- Dimensions are inside diameter x length.
- Standard wall thickness is approx. 1.5 mm.



- Soxhlet extractions
- Dust sampling

Ordering information

| Size [mm] | Packing [pcs.] | Cat. No. |
|-----------|----------------|----------|
| 19 x 90 | 25 | 610.199 |
| 22 x 80 | 25 | 610.228 |
| 25 x 80 | 25 | 610.258 |
| 25 x 100 | 25 | 610.250 |
| 26 x 60 | 25 | 610.266 |
| 28 x 80 | 25 | 610.288 |
| 28 x 100 | 25 | 610.280 |
| 30 x 80 | 25 | 610.308 |
| 30 x 100 | 25 | 610.300 |
| 33 x 80 | 25 | 610.338 |
| 33 x 94 | 25 | 610.339 |
| 33 x 100 | 25 | 610.331 |
| 33 x 118 | 25 | 610.318 |
| 35 x 150 | 25 | 610.351 |
| 41 x 123 | 25 | 610.412 |

Extraction Thimbles

Extraction Thimbles are seamless, high purity filters with a distinctive thimble shape. Thimbles are available in four different materials of construction in many sizes. Typical applications include analysis of fats, oils, grease, organics, pesticides and pollutants, additives in plastic and rubber materials.



› Cellulose Thimbles – No. 84

- Suitable for Soxhlet extractions of organic components
- Dust sampling
- Lipid content <0.1% by weight

› Glass Fiber Thimbles – No. 86R

- Borosilicate glass
- High temperature extractions or dust monitoring (≤ 500 °C)
- Acid resistant (except hydrofluoric)
- Acid washed for minimum trace metal content

› Quartz Fiber Thimbles – Nos. 88R and 88RH

- Use up to 1000°C
- No. 88RH is treated at 900°C for 4 hours to stabilize the weight prior to use
- Both 88R and 88RH are tapered for ease in loading into stack samplers

› PTFE Fiber and PTFE/Quartz Fiber Thimbles – Nos. 89 and 89S

- Durable, temperature resistant
- Non-adsorptive with respect to acid gases
- PTFE is inherently hydrophobic
- Little or no trace metal contamination

Specifications

| Type | Material | Nominal Rating [μm] | Wall Thickness [mm] | Weight [g per 25x90 mm Thimble] | Pressure drop at 5 l/min. [kPa] | Collection Efficiency [%; 0.3 μm DOP] | Max. Operating Temperature [°C] | Heating loss rate [%] |
|------|-------------------|----------------------------------|---------------------|---------------------------------|---------------------------------|--|---------------------------------|-----------------------|
| 84 | Cellulose | 8 | 1.5 | 3.6 | 0.25 | 89 | 120 | - |
| 86R | Glass Fiber | 1 | 1.6 | 1.8 | 0.30 | >99.9 | 500 | 0.2 |
| 88R | Quartz Fiber | - | 2.2 | 1.6 | 0.44 | >99.9 | 1000 | - |
| 88RH | Quartz Fiber | - | 2.2 | 1.6 | 0.44 | >99.9 | 1000 | 0.1 |
| 89 | PTFE Fiber | - | 1.8 | 11.0 | 4.5 | >99.9 | 260 | - |
| 89S | PTFE/Quartz Fiber | - | 1.6 | 6 | 0.54 | >99.9 | 400 | 0.07 |

Ordering Information

Note

Please note that there are two versions of sizes available; either expressed as Internal diameter x height or External diameter x height.

Cat. Nos. with "X" as the last digit means External diameter and Cat. Nos. without the "X" mentioned, is the Internal diameter of the thimbles.

Tolerances:

Diameter +/- 3%

Height +/- 1.5%

Cellulose Thimbles – No. 84

External diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 20 x 90 | 25 | 84.209X |
| 22 x 90 | 25 | 84.229X |
| 25 x 90 | 25 | 84.259X |
| 28 x 100 | 25 | 84.280X |
| 30 x 100 | 25 | 84.300X |
| 33 x 120 | 25 | 84.332X |
| 35 x 120 | 25 | 84.352X |
| 40 x 150 | 25 | 84.405X |
| 45 x 150 | 25 | 84.455X |
| 53 x 150 | 25 | 84.535X |
| 60 x 200 | 25 | 84.600X |
| 75 x 210 | 25 | 84.751X |

Glass Fiber Thimbles – No. 86R

External diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 20 x 90 | 25 | 86R.209X |
| 22 x 90 | 25 | 86R.229X |
| 25 x 90 | 25 | 86R.259X |
| 28 x 100 | 25 | 86R.280X |
| 30 x 100 | 25 | 86R.300X |
| 33 x 120 | 25 | 86R.332X |
| 35 x 120 | 25 | 86R.352X |
| 40 x 150 | 25 | 86R.405X |
| 45 x 150 | 25 | 86R.455X |
| 53 x 150 | 25 | 86R.535X |
| 60 x 200 | 25 | 86R.600X |
| 75 x 210 | 25 | 86R.751X |

Cellulose Thimbles – No. 84

Internal diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 19 x 90 | 25 | 84.199 |
| 22 x 65 | 25 | 84.226 |
| 22 x 80 | 25 | 84.228 |
| 25 x 60 | 25 | 84.256 |
| 25 x 80 | 25 | 84.258 |
| 25 x 90 | 25 | 84.259 |
| 25 x 100 | 25 | 84.250 |
| 28 x 100 | 25 | 84.280 |
| 30 x 80 | 25 | 84.308 |
| 30 x 100 | 25 | 84.300 |
| 33 x 80 | 25 | 84.338 |
| 33 x 94 | 25 | 84.339 |
| 33 x 100 | 25 | 84.330 |
| 43 x 123 | 25 | 84.432 |

Glass Fiber Thimbles – No. 86R

Internal diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 19 x 90 | 25 | 86R.199 |
| 25 x 90 | 25 | 86R.259 |
| 25 x 100 | 25 | 86R.250 |
| 30 x 80 | 25 | 86R.308 |
| 30 x 100 | 25 | 86R.300 |
| 43 x 123 | 25 | 86R.432 |

Ordering Information

Quartz Fiber Thimbles – No. 88R

External diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 20 x 90 | 25 | 88R.209X |
| 22 x 90 | 25 | 88R.229X |
| 25 x 90 | 10 | 88R.259X |
| 28 x 100 | 25 | 88R.280X |
| 30 x 100 | 25 | 88R.300X |
| 33 x 120 | 25 | 88R.332X |
| 35 x 120 | 25 | 88R.352X |
| 40 x 150 | 25 | 88R.405X |
| 45 x 150 | 25 | 88R.455X |
| 53 x 150 | 25 | 88R.535X |
| 60 x 200 | 25 | 88R.600X |
| 75 x 210 | 25 | 88R.751X |

Quartz Fiber Thimbles – No. 88R

Internal diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 19 x 90 | 25 | 88R.199 |
| 25 x 100 | 25 | 88R.250 |
| 30 x 80 | 25 | 88R.308 |
| 30 x 100 | 25 | 88R.300 |
| 33 x 80 | 25 | 88R.338 |
| 43 x 123 | 25 | 88R.432 |

Quartz Fiber Thimbles – No. 88RH

External diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|-----------|
| 25 x 90 | 10 | 88RH.259X |

PTFE Fiber Thimbles – No. 89

External diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 25 x 90 | 10 | 89.259X |

PTFE/Quartz Fiber Thimbles – No. 89S

External diameter

| Size [mm] diameter x height | Packing | Cat. No. |
|--------------------------------|---------|----------|
| 25 x 90 | 10 | 89S.259X |