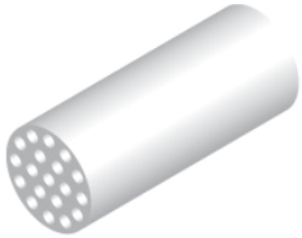
Atech ceramic membrane 19/3.3

Tubular ceramic membrane element for microfiltration (MF) and ultrafiltration (UF).
Manufacturer: atech innovations gmbh, Germany.



Channels **19 × 3.3 mm**	Outer diameter **25.4 mm**
Area at 1200 mm **0.24 m²**	pH range **0 to 14**

Design	19 channels, channel diameter 3.3 mm
Outer diameter	25.4 mm (±0.5 mm)
Membrane area, 1000 mm	approx. 0.2 m² per element
Membrane area, 1200 mm	approx. 0.24 m² per element
Other lengths	On request, up to 1500 mm
Processes	Microfiltration (MF) and ultrafiltration (UF)
MF pore sizes	1.2, 0.8, 0.4, 0.2 and 0.1 µm; membrane layer α-Al_2O_3, ZrO_2 or TiO_2
UF pore size / cut-off	0.05 µm; 150, 100, 25, 15, 5 and 1 kDa; membrane layer TiO_2, ZrO_2 or Al_2O_3
Support material	α-Al_2O_3
pH range	0 to 14
Steam sterilisation	All designs, ≥ 121 °C
Food contact	EU Regulation 1935/2004 and FDA 21 CFR 170-199
Module sizes	M1, M1 LM, M3, M3 LM, M7, M7 LM, M19, M19 LM, M23 LM, M31, M47, M114 LM = sanitary design to the 3-A Sanitary Standard (certificate 3674)
Housings	Stainless steel 316L / 316Ti, PN 10 at 110 °C; industrial design (O-ring) or sanitary LM design (cone seal). PVC-C housing for one element: PN 10, max. 80 °C

Filter area of a module = number of elements × area per element (e.g. module M7 with seven elements).