

Quartz fiber filter papers

Grade QM-A

High-purity quartz (SiO_2) microfiber filters are used for air sampling in acidic gases, stacks, flues, and aerosols, particularly at high temperatures up to 800°C and in PM_{2.5}/PM₁₀ and trace element analysis. Due to the low level of alkaline earth metals, artifact products of sulfates and nitrates (from SO_2 and NO_2) are virtually eliminated. QM-A, sequentially numbered according to EPA standards, is suitable for most applications, Grade QM-A filter papers are pre-fired.



Grade QM-A

Grade QM-H

This is a pure quartz fiber filter with low heavy metal content, which can be used at temperatures over 900°C .

Grade QM-B

QM-B is a thicker quartz fiber filter than QM-A. It has higher loading capacity and is suitable for air sampling.

Typical properties—quartz fiber filter grades

Grade	Minimum retention efficiency in air (% @ $0.3\ \mu\text{m}$)	Typical retention efficiency in air (% @ $0.3\ \mu\text{m}$)	Nominal air flow (s/100 mL/in ²)	Nominal thickness (μm)	Nominal basis weight (g/m ²)	Maximum recommended temperature ($^\circ\text{C}$)
QM-A	≥ 99.85	≥ 99.99	6.3	475	85	800
QM-B	≥ 99.85	≥ 99.99	12	950	170	800
QM-H	–	≥ 99.97	–	430	85	900

Ordering information—quartz fiber filter grades

Dimensions (mm)	Catalog number			Quantity/pack
	QM-A	QM-H	QM-B	
Filter circles				
25	1851-025	–	–	100
32	1851-032	–	–	100
37	–	1853-037-50	–	50
37	1851-037	–	–	100
40	–	–	1852-040	50
42	–	–	1852-042	50
47	–	1853-047-50	–	50
47	1851-047	–	–	100
50	–	1853-050-50	–	50
50	1851-050	–	–	100
55	1851-055	–	–	100
82	1851-082	–	–	100
85	1851-085	–	–	100
90	–	1853-090-50	–	50
90	1851-090	–	–	100
101.6	1851-101	–	–	100
110	1851-110	–	–	100
118	1851-118	–	–	100
150	–	1853-150-50	–	50
150	1851-150	–	–	100
Filter sheets				
8" × 10"	1851-8866 (prenumbered)	–	–	100
8" × 10"	1851-865	–	–	25