

Profile® II Filters for CMP Applications



Data Sheet MEPR2CMPENb

Description

The Profile® II filters effectively remove agglomerated particles and gels from oxide, tungsten and copper CMP slurries, while not affecting slurry particle distribution.

Features & Benefits

- Depth filter with consistent, reproducible performance
- Continuously profiled pore structure for built-in prefiltration and long service life
- Steep efficiency curves result in minimal strip-out of desirable slurry particles while sharply increasing removal of oversized particles



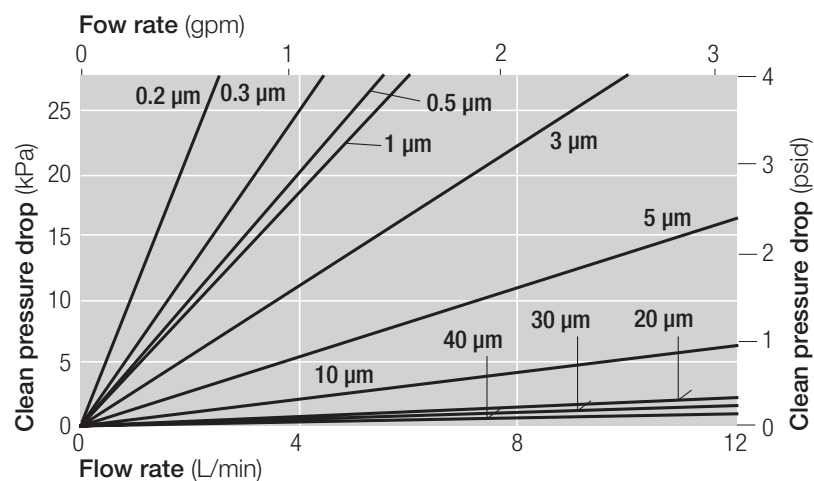
Materials of Construction

Components	Materials
Filter Media	Polypropylene
Core, Cage, End Caps	Polypropylene
O-rings Option	Ethylene Propylene (EPR)

Specifications

Removal Ratings	0.2 µm, 0.3 µm, 0.5 µm, 1 µm, 3 µm, 5 µm, 10 µm, 20 µm, 30 µm and 40 µm (Profile filter removal ratings can be 5–10 times finer than traditional ratings for depth filters.)
Nominal Length	254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in and 1016 mm / 40 in
O-ring Size / End Caps	Code 3 (222 double O-ring flat end) Code 25 (222 double O-ring flat end)
Maximum Temperature	82 °C / 180 °F
Maximum Differential Pressure	0.41 MPa @ 30°C / 60 psig @ 85°F 0.34 MPa @ 50°C / 50 psid @ 120°F 0.2 MPa @ 70°C / 30 psid @ 160°F 0.1 MPa @ 82°C / 15 psid @ 180°F

Typical Flow Characteristics - 1cP fluid, 20 °C



Part Numbers / Ordering Information

Part Number	Removal Rating ¹ (μm)	Nominal Length ¹ (mm / in)	Configuration Code ¹	O-Ring Material ¹
AB1Y00225J	0.2	254 / 10	25	EPR
AB2Y00225J	0.2	508 / 20	25	EPR
AB1Y0033J	0.3	254 / 10	3	EPR
AB2Y0033J	0.3	508 / 20	3	EPR
AB1Y0053J	0.5	254 / 10	3	EPR
AB2Y0053J	0.5	508 / 20	3	EPR
AB1Y0103J	1	254 / 10	3	EPR
AB2Y0103J	1	508 / 20	3	EPR
AB1Y0303J	3	254 / 10	3	EPR
AB2Y0303J	3	508 / 20	3	EPR
AB1Y0503J	5	254 / 10	3	EPR
AB2Y0503J	5	508 / 20	3	EPR
AB1Y1003J	10	254 / 10	3	EPR
AB2Y1003J	10	508 / 20	3	EPR
AB1Y2003J	20	254 / 10	3	EPR
AB2Y2003J	20	508 / 20	3	EPR
AB1Y3003J	30	254 / 10	3	EPR
AB2Y3003J	30	508 / 20	3	EPR
AB1Y4003J	40	254 / 10	3	EPR
AB2Y4003J	40	508 / 20	3	EPR

¹ Other removal ratings, lengths, configurations, and O-ring materials are available.

Unit conversion: 1 bar = 100 kilopascals



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