

## Ulti-Etch Filter



### Description

The newly developed Ulti-Etch filter is designed to improve recirculating etch bath cleanup performance.

Increased wafer diameters have caused bath volumes and pump sizes to also increase. This has created higher face velocities through recirculating etch bath filters.

Utilizing the latest advance in Pall filtration technology, the crescent shaped Ultipleat® filter design, has enabled us to improve our rapid bath clean up performance characteristics.

- Rapid bath cleanup with particle challenge
- Spontaneously wets in BOE (HF/NH<sub>4</sub>F mixture)
- Very high flow rates
- Rapid bath turnover
- No prewetting required
- Excellent particle removal
- Hydrophilization modification is chemically bonded, not coated
- Low extractables
- Manufactured in a cleanroom environment

### Specifications

#### Materials

- Medium: Hydrophilic PVDF
- Core, cage, and end caps: Polypropylene
- Support and drainage: Polypropylene
- O-ring options: Viton<sup>1</sup> A and Teflon<sup>1</sup> encapsulated Viton

#### Removal Rating

- 0.1 µm in recirculation mode

#### Configurations

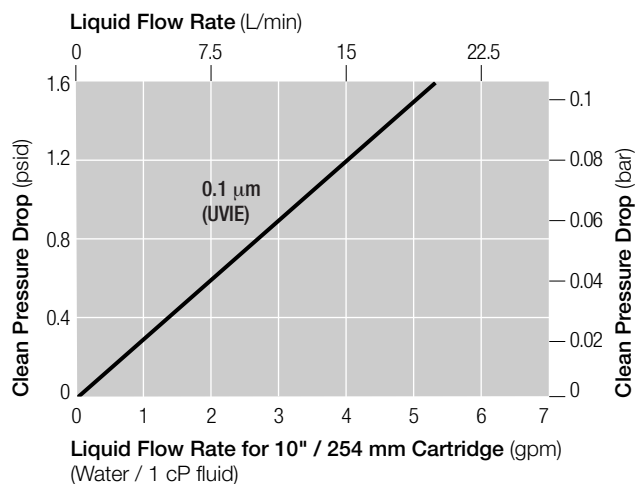
- Nominal length: 10" / 254 mm
- Diameter: 2.75" / 70 mm
- O-ring size / end caps: Code 3 (222 double O-ring / flat end)

#### Operating Conditions

- Maximum Temperature: 165°F / 75°C
- Maximum Differential Pressure: 30 psid / 2 bar

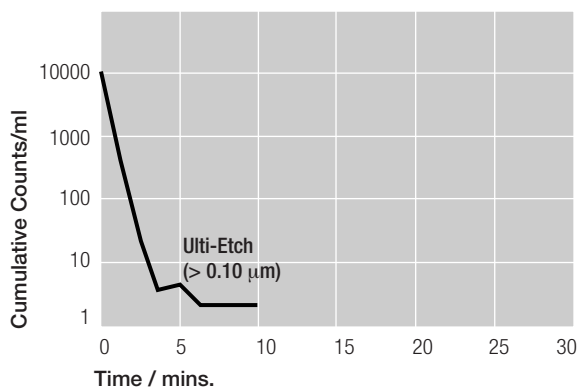
<sup>1</sup> Viton and Teflon are trademarks of DuPont Dow Elastomers

## Pressure Drop vs. Liquid Flow Rate<sup>2</sup>



<sup>2</sup> For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

## Typical Performance Characteristics<sup>3</sup>



<sup>3</sup> Cleanup of 200 mm Etch Bath after Particle Challenge  
 ½ Hp Pump, 38.5 liter Recirculating Etch Bath.  
 Counts monitored with PMS M65.  
 PMS - Particle Measuring Systems, Boulder, CO.

## Part Numbers / Ordering Information

Part Number	Nominal Length (in / mm)	O-Ring Material <sup>4</sup>
AB1UVI3EHF	10 / 254	Viton A
AB1UVI3EH1	10 / 254	Teflon Encapsulated Viton
MR1UVI3EHF	10 / 254	Viton A
MR1UVI3EH1	10 / 254	Teflon Encapsulated Viton

<sup>4</sup> Other O-ring materials are available.

**Unit conversion:** 1 bar = 100 kilopascals



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