**Ultipleat® P-Nylon Filter**

**Description**

The Ultipleat P-Nylon filter is recommended specifically for bulk filtration of photoresists, solvents, TMAH-based developers and other chemicals, that are compatible with nylon 6,6 and High Density Polyethylene (HDPE). The filter design incorporates the latest advance in Pall filtration technology: the crescent shaped Ultipleat® filter configuration.

- Naturally hydrophilic
- Quick venting
- Wide range of configurations
- High flow rates
- Integrity testable
- Low extractables
- Manufactured in a cleanroom environment
- 100% integrity tested

**Specifications**

**Materials**
- Medium: Hydrophilic nylon 6,6
- Core, cage, and end caps: High Density Polyethylene (HDPE)
- Support and drainage: High Density Polyethylene (HDPE)
- O-ring options: Viton® and Teflon® encapsulated Viton

**Removal Ratings**
- 0.1 µm, 40 nm, 20 nm

**Filter Areas**
- 0.1 µm UNI: 0.93 m² / 10 ft² per 10 in
- 40 nm UND: 1.2 m² / 13 ft² per 10 in
- 20 nm UNM: 1.4 m² / 15 ft² per 10 in

**Configurations**
- Nominal length: 254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in
- Diameter: 70 mm / 2.75 in
- O-ring size / end caps:
  - Code 3: 222 double O-ring / flat end
  - Code 8: 222 double O-ring / finned end
  - Code 7: 226 double O-ring bayonet lock / finned end
  - MR Code 3: 222 double O-ring / flat end designed to retrofit Code 0 elements

**Operating Conditions**
- Maximum operating temperature: 50°C / 120°F
- Maximum forward / reverse differential pressure: 275 kPa @ 20°C / 40 psid @ 68°F

**Recommended Applications**
- Anti-reflective coatings
- Up to 3% TMAH-based developers
- i-line, 248 nm, and 193 nm photoresists
- Solvents

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1 Viton and Teflon are registered trademarks of E. I. du Pont de Nemours and Company
## Pressure Drop vs. Liquid Flow Rate

![Pressure Drop vs. Liquid Flow Rate](image)

2 For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

### Part Numbers / Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Removal Rating</th>
<th>Nominal Length (mm / in)</th>
<th>Configuration Code</th>
<th>O-Ring Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABD1UN3EH1</td>
<td>0.1 µm</td>
<td>254 / 10</td>
<td>3</td>
<td>Teflon encapsulated Viton</td>
</tr>
<tr>
<td>ABD1UN8EH1</td>
<td>0.1 µm</td>
<td>254 / 10</td>
<td>8</td>
<td>Teflon encapsulated Viton</td>
</tr>
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<td>MRD1UN3EH1</td>
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</table>

3 The above filter configurations are also available in 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in lengths. These can be ordered by changing the fourth digit in the part number to a 2, 3, or 4 respectively.

4 Other O-ring materials are available.

Unit conversion: 1 bar = 100 kilopascals