

# Filter Media Specifications

## Filter Elements

### Standard Media

**5 µm Polyester:** 5 micron, 99+% efficiency

- ID: “odd number”: i.e. **19<sup>®</sup>**, **235P<sup>™</sup>**
- Classification: ePM<sub>10</sub> 75% (ISO 16890)
- Pleated industrial needle felt polyester media
- Plastisol potting
- Temperature min: -15°F (-26°C), max: 220°F (104°C)
- Reinforced epoxy coated steel wire on ID and OD

**2 µm Paper:** 2 micron, 99+% efficiency

- ID: “even number”: i.e. **18<sup>™</sup>**, **234P<sup>™</sup>**
- Classification: ePM<sub>2.5</sub> 50% (ISO 16890)
- Heavy duty industrial strength paper
- Plastisol potting
- Galvanized expanded metal
- Temperature min: -15°F (-26°C), max: 220°F (104°C)

### High Efficiency

**1 µm Polyester - Z Media:** 1 micron, 99+% efficiency

- ID: “odd number” & “Z” suffix: i.e. **19Z**, **235ZP**
- Classification: ePM<sub>2.5</sub> 60% (ISO 16890)
- Epoxy coated steel wire on both sides of media
- Temp min: -15°F (-26°C), max: 220°F (104°C)
- Washable - lukewarm water & mild detergent

**4 µm Polyester - N Media:** 4 micron, 99+% efficiency

- ID: “odd number” & “N” suffix: i.e. **15N**, **377NP**
- Temp min: -15°F (-26°C), max: 220°F (104°C)

**HEPA - HE Media:** 0.3 µm, 99.97%

- ID: “HE” prefix & “even number”: i.e. **HE230**, **HE334P**
- Classification: E12 under EN 1822/ISO 30E under ISO 29463)
- Heavy duty industrial strength glass surrounded by galvanized expanded metal
- Maximum oversizing required to minimize pressure drop
- Plastisol potting standard
- Temp min: -15°F (-26°C), max: 220°F (104°C)
- Options: silicone potting, viton gaskets

**ULPA - UL Media:** 0.1 micron, 99.995% efficiency

- ID: “UL” prefix & “even number”: i.e. **UL234**
- Classification: H14 under EN1822/ISO45H under ISO 29463
- Plastisol potting
- Temp min: -15°F (-26°C), max: 220°F (104°C)
- Options: silicone potting, viton gaskets

**Dutch Twill Weave - DT Media**

- ID: “DT” prefix & “odd number”: i.e. **DT245**
- Classification: ePM<sub>10</sub> 70% (ISO 16890)
- Stainless steel woven wire cloth
- Viton gaskets & epoxy potting
- Temp min: -15°F (-26°C), max: 375°F (190°C)

### Chemical / Food / Pharmaceutical

**Stainless Steel Wire Mesh - S2 Media**

- Stainless steel pleated wire mesh
- ID: “even number” & “S2” suffix: i.e. **14S2**
- Stainless steel expanded metal
- Chemical resistant and high temperature resistant
- Available with silicone endcaps

**Polypropylene (PP) - Y Media:** 5 micron, 99+% efficiency

- ID: “odd number” & “Y” suffix: i.e. **31Y**, **345YP**
- Epoxy coated steel wire on ID and OD

**PTFE - TG Media:** 0.3 micron, 99.5% efficiency

- ID: “TG” prefix & “odd number”: i.e. **TG375**
- Classification: E11 under EN1822/ISO 15E under ISO 29463
- High temperature, chemical, & moisture resistant
- Options: viton gaskets, epoxy potting
- Temp (intermittent): Up to 482°F (250°C)

**PTFE - TF Media:** 0.3 micron, 99.5% efficiency

- ID: “TF” prefix & “odd number”: i.e. **TF275**
- Classification: E11 under EN1822/ISO 15E under ISO 29463
- Chemical & moisture resistant
- Minimal pressure drop
- Temp (intermittent): 220°F (104°C)
- Options: viton gaskets, epoxy potting

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### PPS - RY Media

- Broad chemical resistant media, high temp
- ID: "RY" prefix & "odd number": i.e. **RY485**
- Temp min: -15°F (-26°C), max: 220°F (104°C)
- Options: viton gaskets, epoxy potting

### Coarse Efficiency

#### 25 µm Polyester - U Media: 25 micron, 99+% efficiency

- ID: "odd number" & "U" suffix: i.e. **19U, 685UP**
- Temp min: -15°F (-26°C), max: 220°F (104°C)

#### 100 µm Polyester - W Media: 100 micron, 99+% efficiency

- ID: "odd number" & "W" suffix: i.e. **15W, 385WP**
- Temp min: -15°F (-26°C), max: 220°F (104°C)

### Wire Mesh - S Media

- Epoxy coated pleated wire mesh
- ID: "even number" & "S" suffix: i.e. **274S, 344SP**
- Expanded metal
- Temp min: -15°F (-26°C), max: 220°F (104°C)

### Stainless Steel - S2 Media

- Stainless steel pleated wire mesh
- ID: "even number" & "S2" suffix: i.e. **234S2**
- Chemical resistant and high temperature resistant
- Stainless steel expanded metal
- Temp min: -15°F (-26°C), max: 220°F (104°C)
- Options: silicone or epoxy potting, viton gaskets

### High Temperature

#### Nomex - MX Media: 5 Micron, 99+% efficiency

- ID: "odd number" & "MX" suffix: i.e. **377MX**
- Classification: ePM<sub>10</sub> 80% (ISO 16890)
- Silicone potting
- Temperature min: -15°F (-26°C), max: 385°F (196°C)
- Reinforced epoxy coated steel wire on ID and OD

#### Nomex with Stainless Steel Support - MXD Media

- 5 micron, 99+% efficiency
- ID: "odd number" & "MX" suffix: i.e. **377MXD**
- Classification: ePM<sub>10</sub> 80% (ISO 16890)
- Silicone potting
- Reinforced stainless steel wire mesh on ID and OD
- Temperature min: -15°F (-26°C), max: 385°F (196°C)

Note 1: Elements rated for higher temperatures can be achieved with optional gasket material and potting compounds.

Note 2: Classifications are best estimates based on ISO 16890-1:2016.

### Chemical Adsorption

#### Activated Carbon - AC Media: 10 micron, 99+% efficiency

- ID: "AC" prefix & "even number": i.e. **AC18**
- Removes gas or vapor odors, contaminants, & particulate
- Pleated media
- Reinforced with epoxy coated steel wire on both sides of cloth

#### Activated Carbon Granulate - ACG Media

- ID: "ACG" prefix & "even number": i.e. **ACG30**
- Removes gaseous or vapor odors
- Granulates are enclosed within a polyester wrap and expanded metal on the ID and OD

#### Activated Alumina - AA Media

- ID: "AA" prefix & "even number": i.e. **AA850**
- Desiccant used in the adsorption of water & oil vapor and the prevention of backstreaming in pumps
- Adsorbs up to 40% of media's weight

#### Activated Carbon - GMAC Media

- 3 micron, 70% efficiency
- ID: "GMAC" prefix & "odd number": i.e. **GMAC235**
- Superior odor removal
- Chemically inert

### Coalescing Media

#### PSG Media, FG Media, GL Media

- 0.3 micron, 99.97% efficiency
- ID: "PSG" prefix & "even number": i.e. **PSG344**
- ID: "FG" prefix: i.e. **FG9**
- ID: "GL" prefix: i.e. **GL915**
- Heavy duty industrial glass media, reinforced with epoxy coated steel wire & expanded metal
- Continuous operating temp: 68°F (20°C) to 180°F (80°C)
- Environmentally friendly sealing material
- High D.O.P. efficiency - low oil carryover
- Multiple media configurations, contact factory



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