

American Melt Blown & Filtration has  
brought back the filtration industry to the USA

## **QUAD SERIES**

### **MELTBLOWN FILTERS**

**100% MADE IN THE U.S.A.**

#### **QUAD-PRO**

- Ansi 61, 42 rated and FDA 21 Compliant
- Great Value
- No Glue or Binders
- High Dirt Loading
- Low Pressure Drop

#### **QUAD-DELUXE**

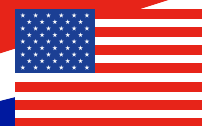
- 95% Efficiency at designated microns
- Ansi 61, 42 rated and FDA 21 Compliant
- Integrated 4 Stage Depth Loading
- High Dirt Loading
- Low Pressure Drop

#### **QUAD-ELITE**

- 99% Efficiency at designated microns
- Ansi 61, 42 rated and FDA 21 Compliant
- Integrated 4 Stage Depth Loading
- Cored Center for Filter Stability
- High Dirt Loading
- Heat set surface to stop fiber migration

#### **QUAD-RO**

- High-End Membrane Protection when it is Critical
- Ansi 61, 42 rated and FDA 21 Compliant
- Integrated 4 Stage Depth Loading
- Cored Center for Filter Stability
- High Dirt Loading
- Heat set surface to stop fiber migration
- Designed to protect membranes for SDI reduction





The 4-zone technology allows the larger particles to be trapped in the outer most layers. The inner most layer is where the true efficiency rating is achieved. The two images show how there is a consistent dirt loading pattern throughout the life of the filter.



Zone 1  
Filter Media

Zone 2  
Prefilter

Zone 3  
Dirt Loading

Zone 4  
Dirt Loading

This image shows the Quad Series cut away layer by layer. The outermost layers are made of larger diameter fibers to allow larger particles to flow through, while the inner most layers trap the fine particles maximizing the life of the filter.

The *Quad Series* is offered with or without a heavy duty polypropylene core.



## ADVANTAGES

- Removal from 1u to 100um
- Quad Zone technology allow the formation of 4 separate filtration zones within the depth of the filter cartridge.
- Continuous 4-zone structure provides effective pre-filtration and final filtration.
- State of the art computer controlled manufacturing process delivers an extremely accurate and consistent product per each zone for proper fiber sizing.
- High-strength polypropylene core maximizes flow and optimizes each of the 4 zones. If required all 4 series may be ordered with cores.
- 100% polypropylene construction allows a wide range of uses, including FDA compliant material for food and beverage contact under CFR Title 21.
- All Quad Series cartridges are free of surfactants, binders or adhesives of any kind.
- Continuous lengths up to 72".
- All End Configurations available to fit most industry standards.
- ANSI 61, 42 and FDA 21 Compliant
- All end caps are thermal bonded, no glues or adhesives are used.

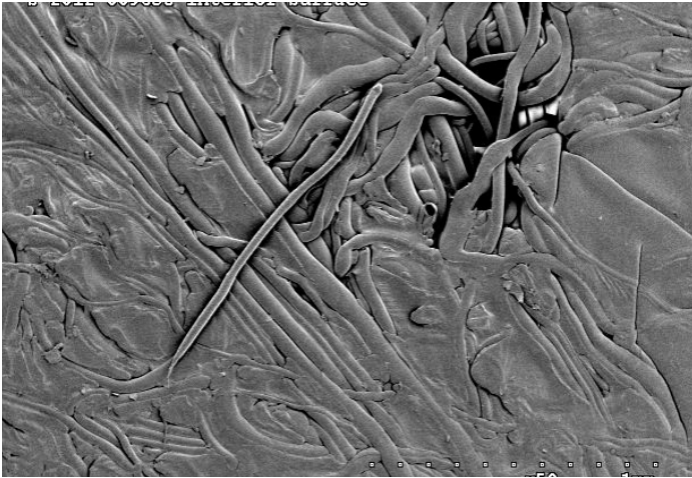


Image A: Competitor Surface

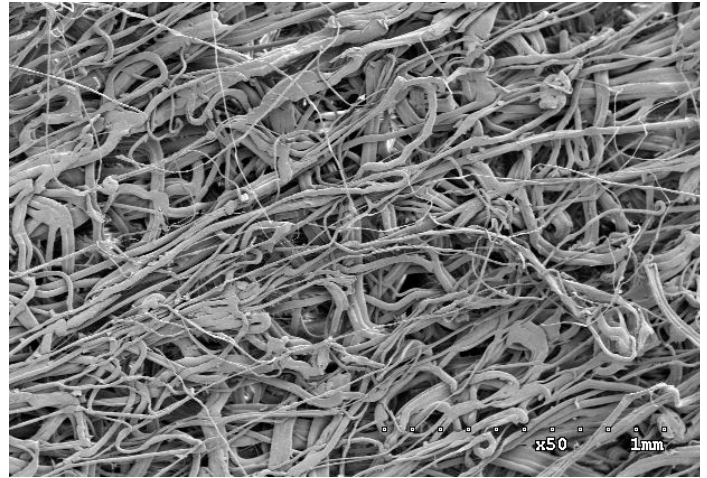
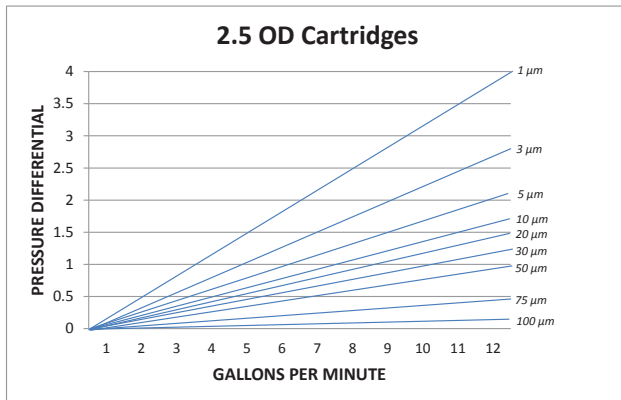


Image B: AMBF Surface

Image A is a microscopic photo of the outer surface of a typical melt blown filter. Most competitors blind off the surface of the filter to create smaller openings to achieve higher efficiencies. Our ability to control the inner layers' efficiencies separately allow the *Quad BE Series* to have a more open outer surface as in Image B. Not having to sacrifice dirt holding capacity to achieve high efficiency is why the *Quad BE Series* is superior to other melt blown filters.

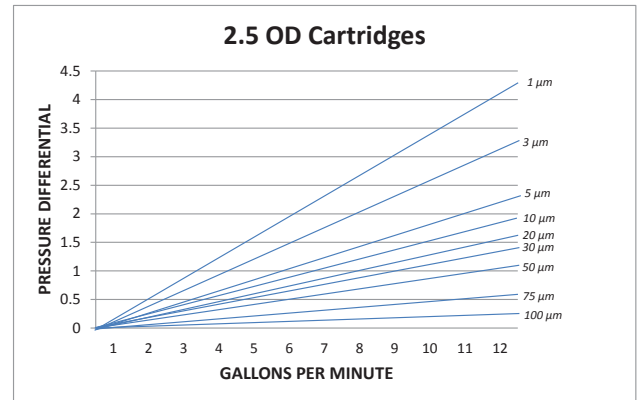
## FLOW RATES VS DIFFERENTIAL PRESSURE

### QUAD RO



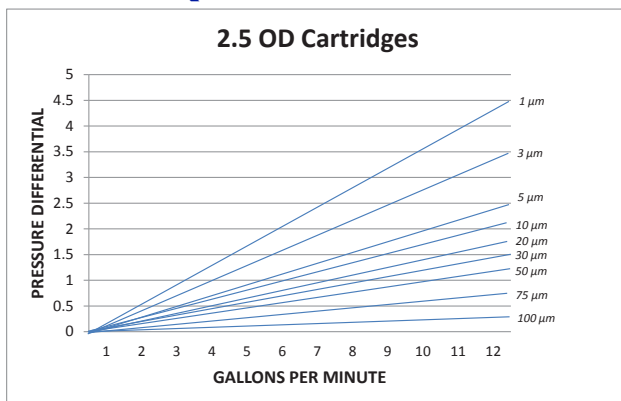
This chart exemplifies normal flow rate for a cartridge length of 10" with water at an ambient temperature as the test fluid. Cartridge length does not cause change in differential pressure, but increasing flow across the housing does.

### QUAD ELITE



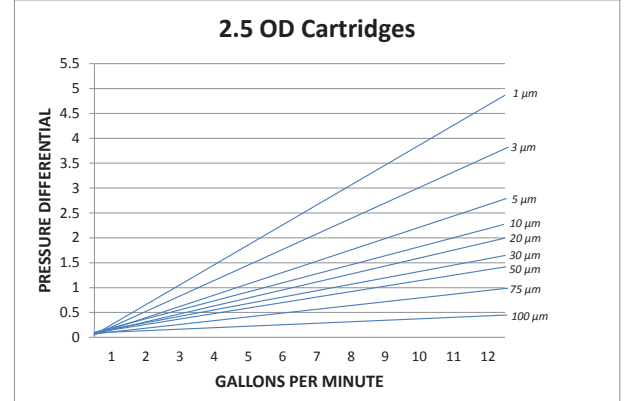
This chart exemplifies normal flow rate for a cartridge length of 10" with water at an ambient temperature as the test fluid. Cartridge length does not cause change in differential pressure, but increasing flow across the housing does.

### QUAD DELUXE



This chart exemplifies normal flow rate for a cartridge length of 10" with water at an ambient temperature as the test fluid. Cartridge length does not cause change in differential pressure, but increasing flow across the housing does.

### QUAD PRO



This chart exemplifies normal flow rate for a cartridge length of 10" with water at an ambient temperature as the test fluid. Cartridge length does not cause change in differential pressure, but increasing flow across the housing does.

## SPECIFICATIONS

- Maximum Forward Differential Pressure  
40 psid (1.7 bar) @ 150° F (66° C)  
60 psid (3.4 bar) @ 86° F (30° C)
- Recommended Change Out Differential Pressure  
35 psid (2.4 bar)
- Micron Ratings  
1, 5, 10, 20, 25, 50, 75 & 100
- Biosafety  
All polypropylene components meet the specifications for biological safety per the USP for Class VI-121° C plastics.
- FDA Listed Materials  
All materials used in construction are listed for food and beverage applications in Title 21 of the U.S. Code of Federal Regulations.
- ANSI 42 and 61 rated for potable water.

## END CAP CONFIGURATIONS



## BUILDING A PART NUMBER

MELT BLOWN	MEDIA	MICRON	DIAMETER	LENGTH	SERIES	CORE (OPTIONAL)	END CAP	GASKET/O-RING
B	E	1	S	2	X		2	B
B	E = Polypropylene	1 5 10 20 25 30 50 75 100	S = 2.5" Standard M = 4.5" * C = Custom	2 = 9.75 3 = 10 4 = 19.5 5 = 20 6 = 29.5 7 = 30 8 = 39 9 = 40 W = 50 C = Custom	S = Quad Pro X = Quad Deluxe A = Quad Elite R = Quad Ro	H = Polypropylene Core  (Series A & R require a core)	1 = DOE/no caps 2 = 222/Fin 3 = 222/Spring 4 = 222/Flat 5 = 226/Flat 6 = 226/Fin 7 = 226/Spring 8 = SOE/Spring 9 = Flat Gasket A = Custom	B = Buna V = Viton® T = Teflon® S = Silicone N = Neoprene D = EPDM P = Polyfoam  (No Selection required for DOE)

\*4.5" Diameter, only DOE is available

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Limited Warranty

**Distributed by: Pyramid Technologies      PH: 615-599-4190**

**www.pyramidfilters.com**