

# High Performance, Corrosive Handling Filtration Equipment



WARCO high performance, absolute rated filtration systems set the standard for demanding corrosive chemical process filters. WARCO highly engineered, glass-free thermoplastic filter designs withstand the harshest chemistries for providing many years of reliable service life.

WARCO SOLID thermoplastic filters are powered by equally robust seal-less magnetic pumps for a completely non-metallic filtration system, free of linings or coatings. WARCO corrosion proof, leak-free filtration systems encompass cartridge, disc, bag, pleated and carbon configurations with absolute efficiency ratings from 0.2 to 120 microns.



**Chemical Processing  
Electroplating  
PCB & Electronics  
Water Treatment**

## WH Brochure

- (PP) Bag & Pleated Filter Systems
- (PP & PVDF) Cartridge Filter Systems
- (PP) Disc Filter Systems
- Metal Recovery Systems
- Carbon Treatment Systems
- Pleated, Disc & Cartridge Media
- Seal-less Magnetic Pumps
- Drum & Container Pumps
- Power Monitors
- Flowmeters





# WH Series High Performance Filter Elements

CHEMTREX Series WH pleated bag filter elements efficiently meet the most demanding filtration requirements. Filter life is largely a function of media surface area. WH elements provide 10-20 times more media surface area than conventional filter bags for reducing fluid velocity and surface layer density, resulting in maximized filter life. WH elements meet high flow ratings in a single element, replacing vast quantities of spent conventional cartridges. Whether it's high purity at absolute ratings, high flows at low or sub-micron levels and/or high solids loading requirements, CHEMTREX WH pleated bag elements offer optimal efficiencies, extended filter life and simplified maintenance procedures.

CHEMTREX WH elements are constructed from thermally bonded, absolute rated, high porosity, filter media without contaminating adhesive materials that degrade in the presence of chemical solutions or temperature cycling. WH filter elements are available in various design configurations.

## MEDIA OPTIONS

WH filter elements are constructed in the following medias:

- Thermally bonded, premium polypropylene fabric (standard)
- Thermally bonded polypropylene felt
- Optional polyester, nylon, cellulose or glass fiber

## MICRON RATINGS

- Precise, **absolute rated** elements (**from 0.5 to 150 micron**) up to 99.9% removal efficiencies in accordance with Beta 5000 standards



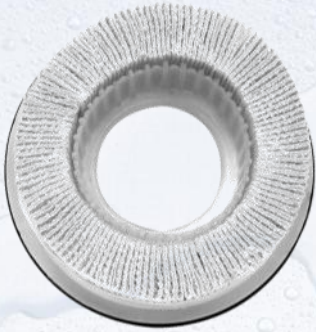
## TECHNICAL FEATURES

- **Absolute rated**, high surface area (up to 125 sq. ft. per element) for maximum flow ratings
- Precisely meets the most demanding low or sub-micron requirements
- **5-20 times more surface area (with 20-80 times the life)** over conventional bags
- High solids loading capacity with the convenience of a bag
- Highly porous, pure media is free of fibrous particulate matter
- Thermally bonded media eliminates contamination from extractable adhesive materials
- Positive o-ring seal prevents by-passing of solids- even in elevated temperatures
- Simplified maintenance allows for rapid change outs in only 5-10 minutes
- Light weight, crushable PP material for more efficient disposal or recycling

## COMMERCIAL BENEFITS

- Compact design minimizes installation costs and floor space requirements
- Precise media ratings avoid unnecessary guess work and potential loss of finished product
- Extended intervals between replacements minimize labor costs and production downtime, and potential loss of usable chemistry
- High flow rates with low pressure drop reduces pump size and power consumption
- Harmful impurities are removed from process solutions to maximize chemistry life
- Solid particulates are removed on a single pass more effectively increasing production yields
- Easy maintenance procedures reduce labor costs and exposure to hazardous materials
- Minimized filter mass decreases waste material and disposal costs



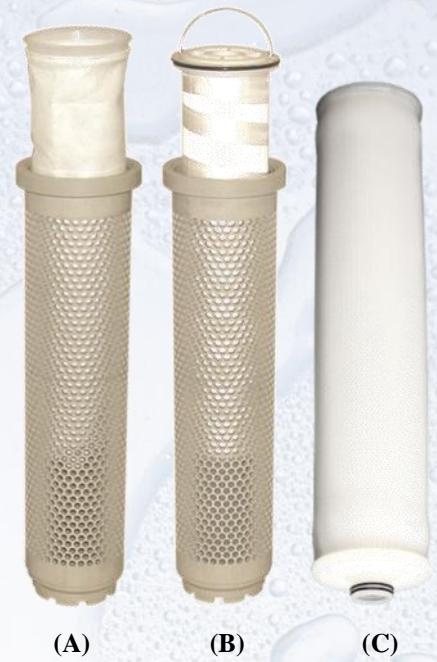


Pleated Filter  
Sectional view

- (A) Standard Bag Filter Design
- (B) High Performance Pleated Filter
- (C) 226 High Capacity Filter Design

Chemtrex™ High Performance Pleated Element Retrofits:

- Pall™ Ultipleat (Series UY)
- Pall™ Ultipleat (Series HFU)
- Pall™ Ultipor (Series GF)
- Pall™ SOE 222 & 226 Cartridges
- 3M™ Series 500 Bags
- 3M™ Series 740 Cartridge
- 3M™ SOE 222 & 226 Cartridges



## Pleated Elements Selection Chart

15" LENGTH				
Part Number	Micron Rating Efficiency			Max Temp °F
	99.98%	98%	90%	
WH6.2M15CC05P3	5	2	1	167°F
WH6.2M15CC10P3	10	5	3	167°F
WH6.2M15CC20P3	20	10	7	167°F
30" LENGTH				
Part Number	Micron Rating Efficiency			Max Temp °F
	99.98%	98%	90%	
WH6.2M30CC05P3	5	2	1	167°F
WH6.2M30CC10P3	10	5	3	167°F
WH6.2M30CC20P3	20	10	7	167°F
40" LENGTH				
Part Number	Micron Rating Efficiency			Max Temp °F
	99.98%	98%	90%	
WH6.2M40CC05P3	5	2	1	167°F
WH6.2M40CC10P3	10	5	3	167°F
WH6.2M40CC20P3	20	10	7	167°F
60" LENGTH				
Part Number	Micron Rating Efficiency			Max Temp °F
	99.98%	98%	90%	
WH6.2M60CC05P3	5	2	1	167°F
WH6.2M60CC10P3	10	5	3	167°F
WH6.2M60CC20P3	20	10	7	167°F



60"



40"

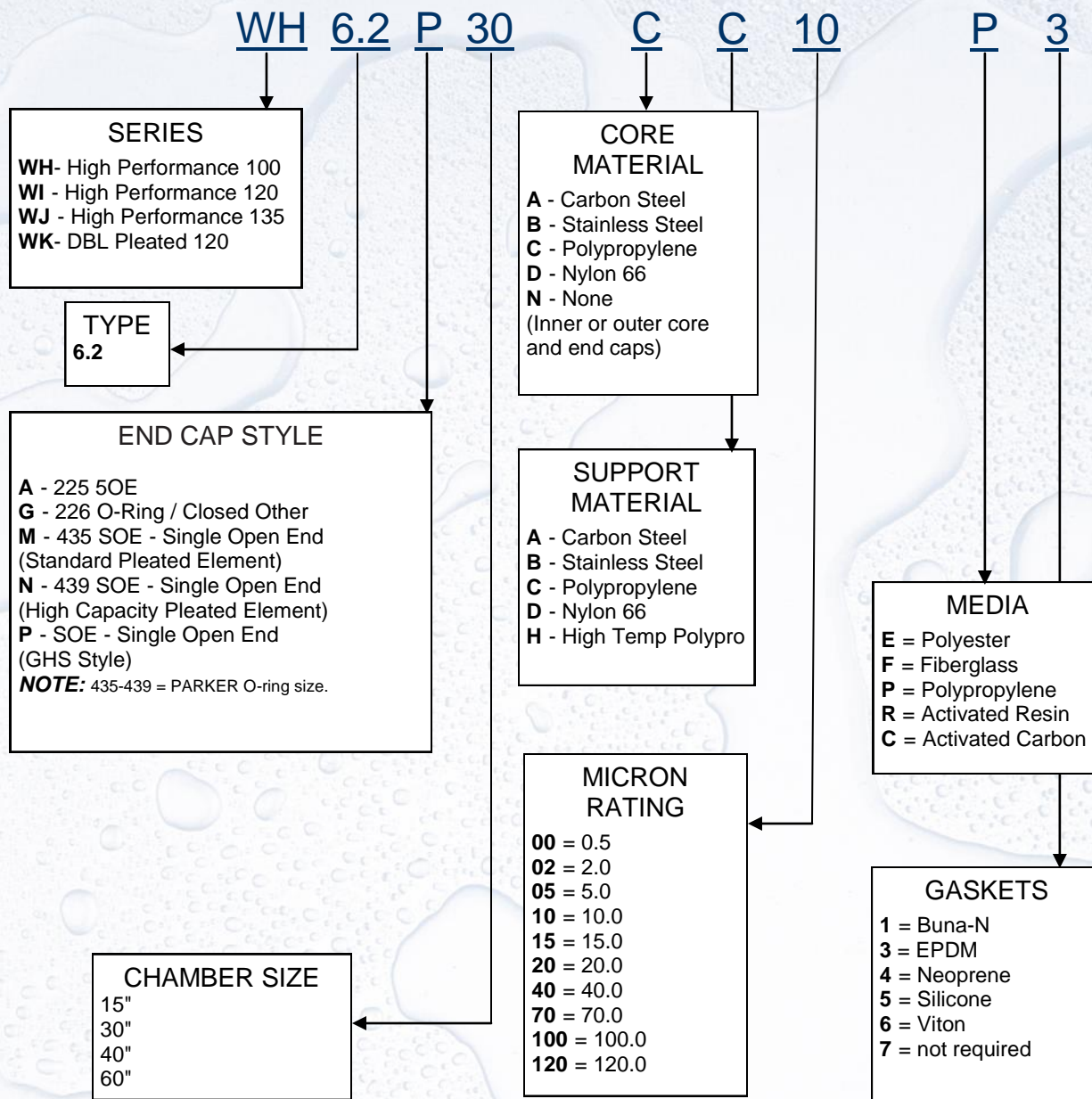


30"

# High Performance Element Nomenclature

**PART NUMBER EXAMPLE: WH6.2P30CC10P3**

(HIGH PERFORMANCE TYPE 6.2 SOE 30" POLYPROPYLENE 10 MICRON POLYPROPYLENE EPDM)



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