

PWA Series Absolute Pleated Cartridge Filter

CHEMTREX Series PWA absolute pleated cartridge filter elements efficiently meet the most demanding filtration requirements, particularly below 20 micron. PWA elements retrofit conventional cartridge filter elements and vessels. Filter life is largely a function of media surface area. PWA elements provide 10-20 times more media surface area than standard cartridges for reducing fluid velocity and surface layer density, resulting in maximized filter life. Whether it's high purity at absolute ratings or high flows at low/sub-micron levels, CHEMTREX PWA pleated elements offer optimal efficiencies and extended filter life.

CHEMTREX PWA 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.

MEDIA OPTIONS

PWA Series filter elements are constructed in the following medias:

- Thermally bonded polypropylene (standard)
- Thermally bonded polyester
- Thermally bonded fiberglass

MICRON RATINGS

- Precise, **absolute rated** elements (**from 0.5 to 70 micron**) up to 99.98% removal efficiencies in accordance with 5000 Beta standards



TECHNICAL FEATURES

- **Absolute rated**, high surface area for maximum flow ratings precisely meet the most demanding low micron requirements
- **5-20 times more surface area with 20-80 times the life** over conventional cartridges
- Highly porous, pure media is free of fibrous particulate matter
- Thermally bonded media eliminates contamination from extractable adhesive materials
- Positive gasket or o-ring sealing prevents by-passing of solids- even in elevated temperatures
- Various end caps available in all common designs
- Light weight, crushable PP material for more efficient disposal or recycling

COMMERCIAL BENEFITS

- Precise media ratings avoid unnecessary guess work with nominal elements and potential loss of finished product
- Extended intervals between replacements minimize labor costs and production downtime, and potential loss of useable 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

Absolute Pleated Cartridge Filter Nomenclature

PART NUMBER EXAMPLE: PWA20DEPE

(PLEATED ABSOLUTE RATED POLYPROPYLENE CARTRIDGE, 20" LENGTH, DOUBLE OPEN END STYLE, 5 MICRON, (FDA Approved) POLYPROPYLENE MEDIA with EPDM SEALS)



PWA 20 D E P E

FILTRATION TYPE

PWA = Pleated **Absolute Rated** Cartridge with full 2.5" O.D. (3.5 sq.ft./10")
PWAH = Pleated **Absolute Rated** Cartridge High Surface Area with full 2.6" O.D. (5.5 sq.ft./10")

LENGTH

10 = 10"
20 = 20"
30 = 30"
40 = 40"

END CAP STYLE

D = DOE (Double Open End)
S = SOE (Single Open End w/222 seal)

MICRON RATING

A = 0.5
B** = 0.8
C** = 1
D = 2
E = 5
F = 10
G* = 20
* = PWA Only
** = PWAH Only

MEDIA

P - Polypropylene (FDA Approved)

GASKETS

B = Buna
E = EPDM
S = Silicon
V = Viton