

The Cost Effective Approach to Quality Filtration

FTC introduces its new PSA-720 PLATINUM Series absolute rated pleated cartridge filter for bag housings.

This unique design, U.S. Patent No. 5824232, uses segregated flow channels and flow chambers to maximize the effective surface area of the pleated filter media within a 6.25 inch OD cartridge filter. Combining this design and the technique of pleating several different filter media together in a single pleat pack maximizes dirt holding capacity.

This PLATINUM Series filter, designed to seal inside existing 3M bag housings without modification, is available in a wide variety of filter media. Constructed with FDA approved polypropylene end caps, core and channel members to meet industry standards and chemical compatibility.

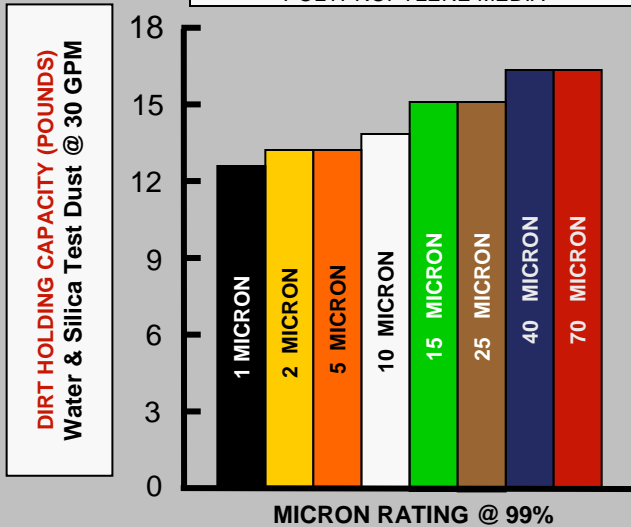
With a recommended flow rate of 30 GPM, this FTC PLATINUM Series filter is the solution to achieving optimum performance while minimizing filtration costs.



FILTRATION COST EFFICIENCY

DIRT HOLDING CAPACITY

DATA FOR PSA-720 SERIES
POLYPROPYLENE MEDIA



INCREASING FILTER LIFE

DOUBLING FILTER SURFACE AREA CAN INCREASE FILTER LIFE UP TO FOUR TIMES:

FILTER LIFE INCREASE =

$$\frac{Le}{Lo} = \left(\frac{Ae}{Ao} \right)^N$$

Le = Extended Filter Life
Lo = Original Filter Life
Ae = Expanded Filter Area
Ao = Original Filter Area
1 ≤ N ≤ 2

FILTER EFFICIENCY

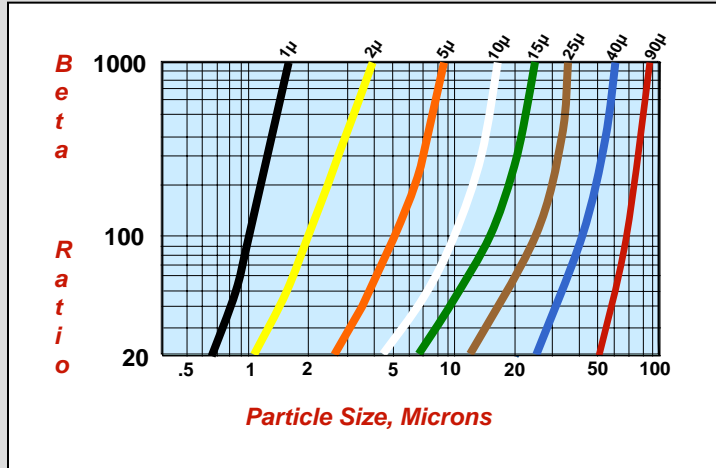
$$\text{Beta Ratio} = \frac{\text{Upstream Particle Count at Specified Size \& Larger}}{\text{Downstream Particle Count at Specified Size \& Larger}}$$

The Beta ratio (β) at a given particle size can be correlated to the filter efficiency at that particle size according to the following formula:

$$\text{Filter Efficiency (\%)} = [(\beta - 1) / \beta] \times 100\%$$

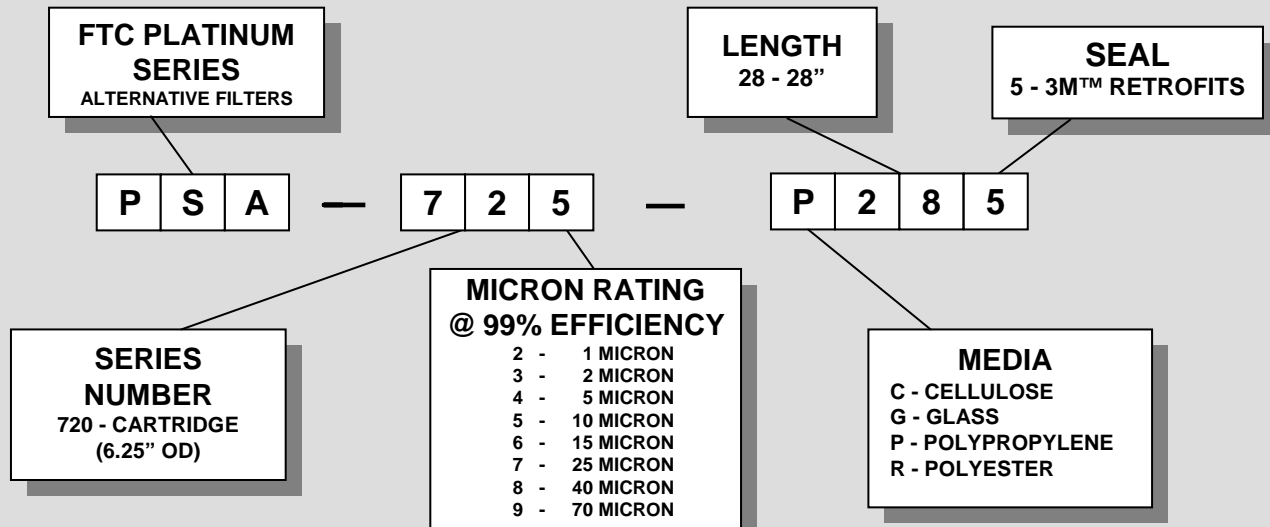
Beta Ratio (β)	Filter Efficiency (%)
20	95.0
100	99.0
1000	99.9

Each filter element will have a different Beta Ratio for every specified particle size. The determination of a variety of Beta values for the same filter provides a filter efficiency profile commonly referred to as a Beta Curve.



FTC BETA CURVES

CARTRIDGE CODING



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FORM PSA-720 7/07

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