

## The Cost Effective Approach to Quality Filtration

FTC introduces its new 2040 PLATINUM Series absolute rated filter cartridge.

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 20.0 inch OD cartridge. Combining this design with the technique of pleating several different filter media together in a single pleat pack maximizes dirt holding capacity.

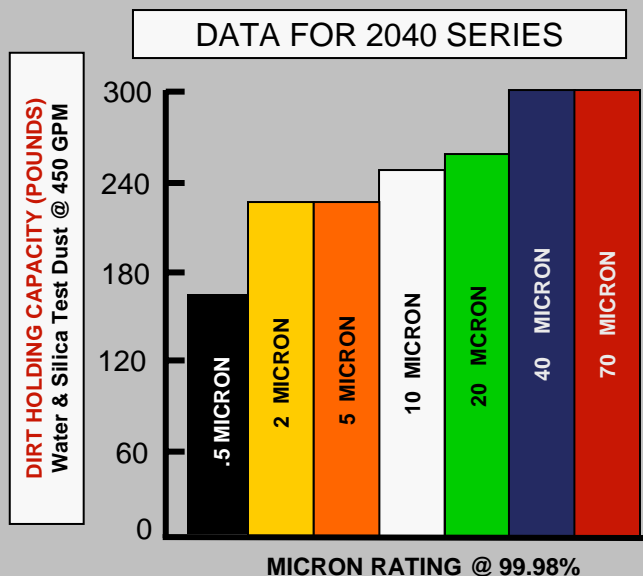
One 2040 PLATINUM Series filter is designed to have the dirt holding capacity of 150 standard 2.5 inch OD pleated cartridges of similar length. Available in a wide variety of filter media, this cartridge is constructed with metal end caps and core for high temperature applications.

With a recommended flow rate of 450 GPM, this FTC PLATINUM Series filter is the solution to achieving optimum performance while minimizing filtration costs.



### FILTRATION COST EFFICIENCY

#### DIRT HOLDING CAPACITY



#### 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  
 $1 \leq N \leq 2$

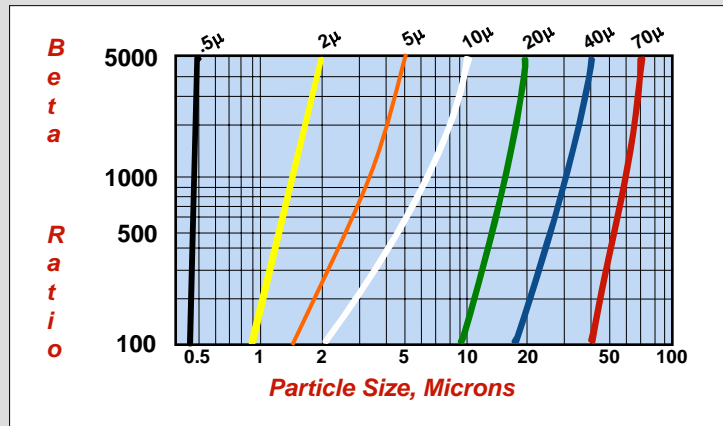
# FILTER EFFICIENCY

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

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

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

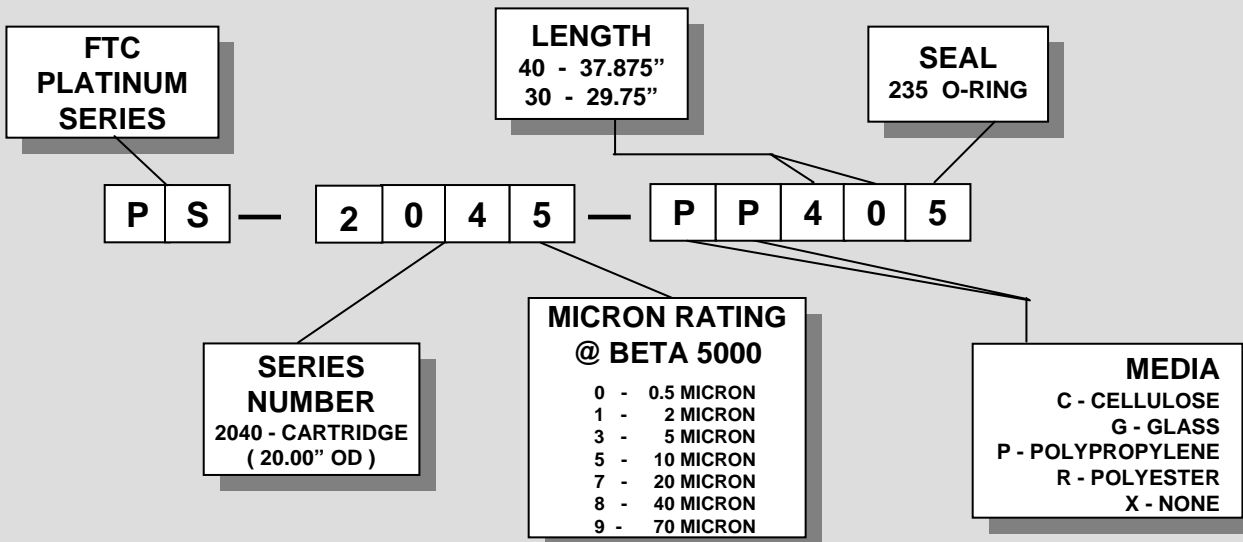
Beta Ratio ( $\beta$ )	Filter Efficiency (%)
100	99.00
1000	99.90
5000	99.98



**FTC BETA CURVES**

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.

# CARTRIDGE CODING



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