



740 DEEP PLEAT Series ALTERNATIVE FILTERS

The Cost Effective Approach to Quality Filtration

Filtration & Membrane Technology, Inc., (FMT) introduces its 740 DEEP PLEAT Series absolute rated filter cartridge

This filter, which uses 1.1 inch deep pleats, is designed to maximize the effective surface area of a single row of pleated filter media within a 6.25 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 740 DEEP PLEAT Series filter is designed to have the dirt holding capacity of 28 string wound or 7 standard 2.5 inch OD pleated cartridges of similar length. Available in a wide variety of filter media, this cartridge can be constructed with metal end caps and core for high temperature applications.

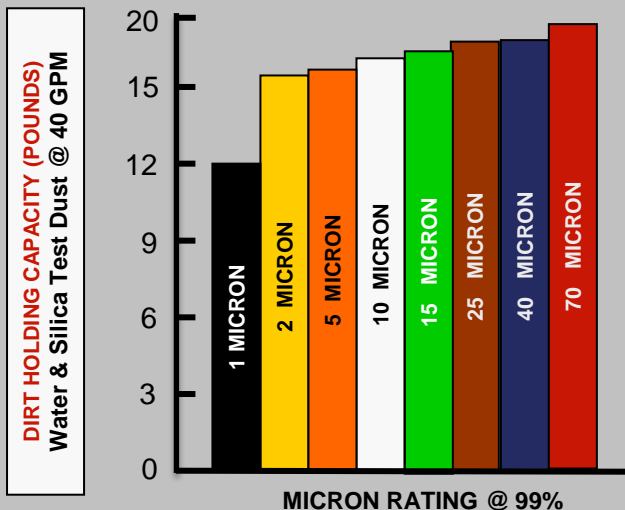
With a recommended flow rate of 40 GPM, this FMT DEEP PLEAT Series filter is the solution to achieving excellent performance while reducing filtration costs.



FILTRATION COST EFFICIENCY

DIRT HOLDING CAPACITY

DATA FOR 740 DEEP PLEAT 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

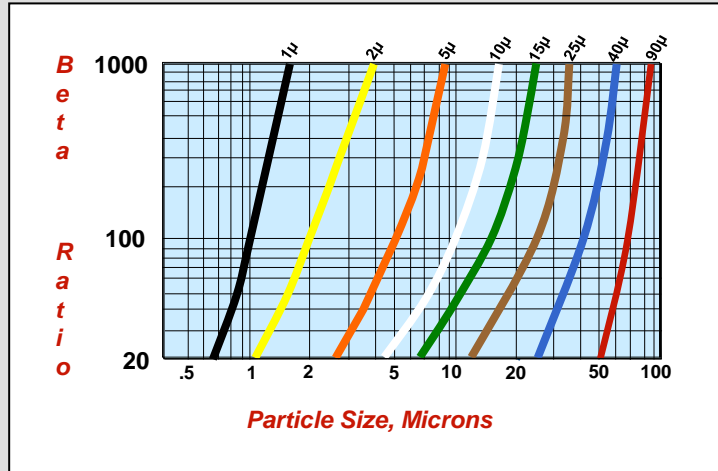
$$\text{Beta Ratio} = \frac{\text{Upstream Particle Count at Specified Size \& Larger}}{\text{Downstream Particle Count at Specified Size \& Larger}}$$

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:

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

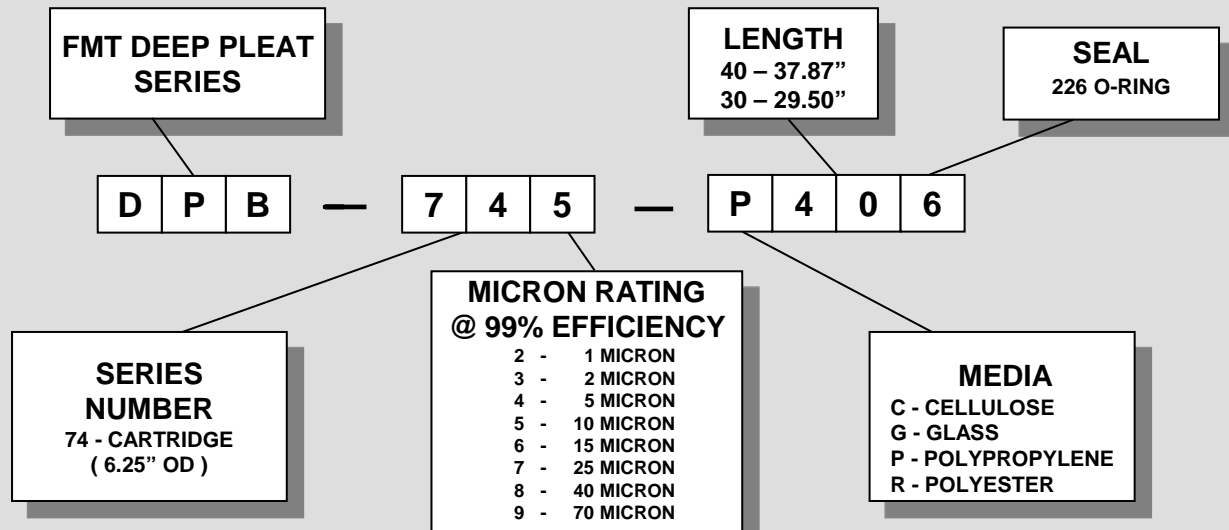
Beta Ratio (β)	Filter Efficiency (%)
20	95.0
100	99.0
1000	99.9

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.



FMT BETA CURVES

CARTRIDGE CODING



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