



MAX-OUT DEEP PLEAT
ABSOLUTE RATED FILTERS

The Cost Effective Approach to Quality Filtration

FTC introduces its new MAX-OUT DEEP PLEAT Series, absolute rated filter cartridge.

This filter, which uses 1.1 inch pleats, provides 35 square feet of effective filter media surface area within the confines of a bag basket. Combining this design with the technique of pleating several different filter media together in a single pleat pack enhances dirt holding capacity.

One MAX-OUT DEEP PLEAT filter is designed to deliver 99% filtration efficiency while holding up to 6.25 pounds of contaminants. Available in a wide variety of filter media, this cartridge can be constructed with metal end caps and core for high temperature applications.

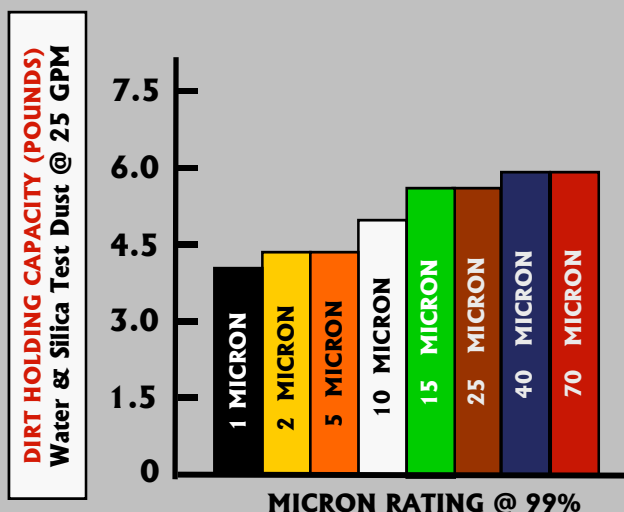
With a recommended flow rate of 25 GPM and 35 PSID, this MAX-OUT DEEP PLEAT series filter is the solution to achieving excellent performance while reducing filtration costs.



FILTRATION COST EFFICIENCY

DIRT HOLDING CAPACITY

DATA FOR MAX-OUT DEEP PLEAT
POLYPROPYLENE MEDIA



INCREASING FILTER LIFE

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

FILTER LIFE INCREASE =

$$\frac{L_e}{L_o} = \left(\frac{A_e}{A_o} \right)^N$$

L_e = Extended Filter Life
 L_o = Original Filter Life
 A_e = Expanded Filter Area
 A_o = Original Filter Area
 $1 \leq N \leq 2$

FILTER EFFICIENCY

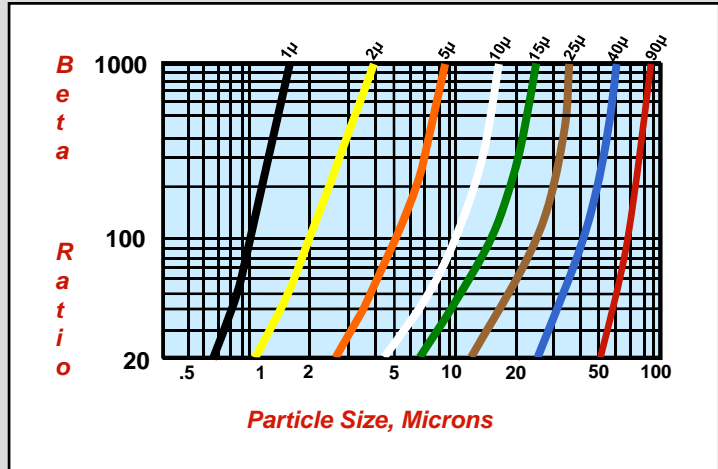
$$\text{Beta Ratio} = \frac{\text{Upstream Particle Count at Specified Size \& Larger}}{\text{Downstream Particle Count at Specified Size \& Larger}}$$

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

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

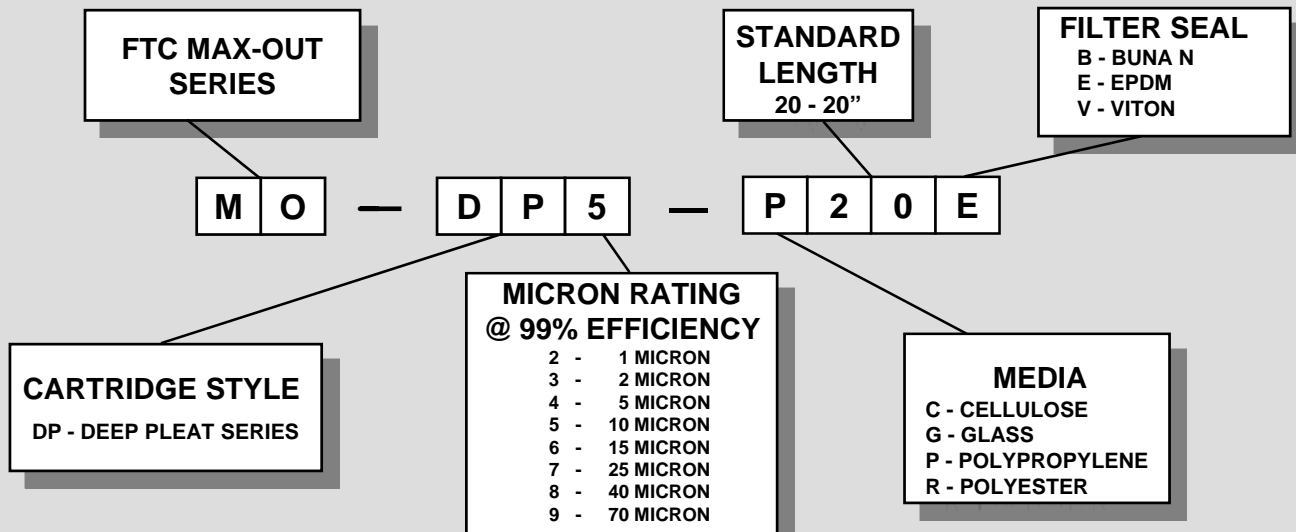
Beta Ratio (β)	Filter Efficiency (%)
20	95.0
100	99.0
1000	99.9

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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