



CONVENTIONAL SERIES ABSOLUTE RATED FILTERS

The Cost Effective Approach for Real Filtration

With absolute ratings from 0.5 to 100 microns, Filtration & Membrane Technology, Inc., (FMT) pleated cartridges provide efficient solids removal in liquid streams. Each cartridge has a pleated, fixed pore media and compression core designed for maximizing effective surface area and strength while preventing particle unloading and fiber migration. Media selections include polypropylene, cellulose, fiberglass, and polyester. Each 2.5" diameter filter has 10X the effective filtration surface area compared to meltblown or stringwound filters.

In this series, FMT offers its customers a choice between standard life and extended life filters. Both filters are composed of the same materials, with the extended life filter offering approximately 30% more media surface area. Depending upon application, each style offers specific economic advantages.

FMT's wide variety of pleated media, filter sizes, and end cap configurations provide customers with the preferred cartridge for their specific application. Superior construction methods and materials combined with excellent quality control techniques ensure that FMT filter cartridges will provide quality filtration, even in harsh operating conditions.

If you require real filtration with proven results, specify absolute rated media to protect your product, equipment, instruments, and membranes.



CAP CONFIGURATIONS



SINGLE OPEN ENDED
W/ 222 or 226
O-RING BASE



DOUBLE OPEN ENDED
W/ GASKETS



SINGLE OPEN ENDED
W/ GASKET & SPRING



SINGLE OPEN ENDED
W/ FIN

FILTRATION SOLIDS HOLDING PER 10" LENGTH*

0.5 MICRON	0.5 POUNDS
2 MICRON	0.61 POUNDS
5 MICRON	0.65 POUNDS
10 MICRON	0.65 POUNDS
20 MICRON	0.65 POUNDS
40 MICRON	0.67 POUNDS
70 MICRON	0.70 POUNDS
100 MICRON	0.73 POUNDS

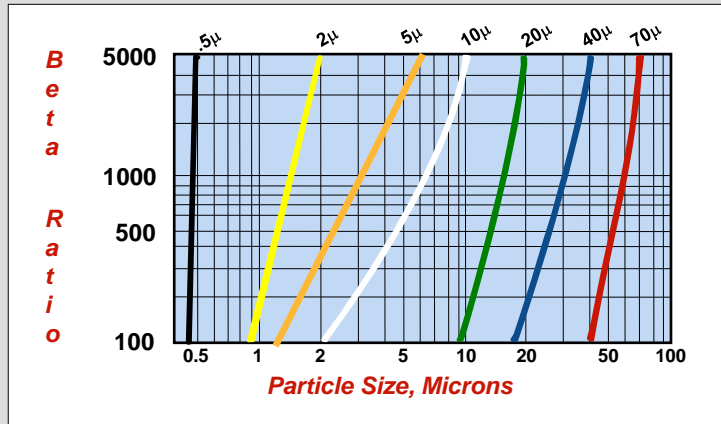
FILTER EFFICIENCY

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

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:

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

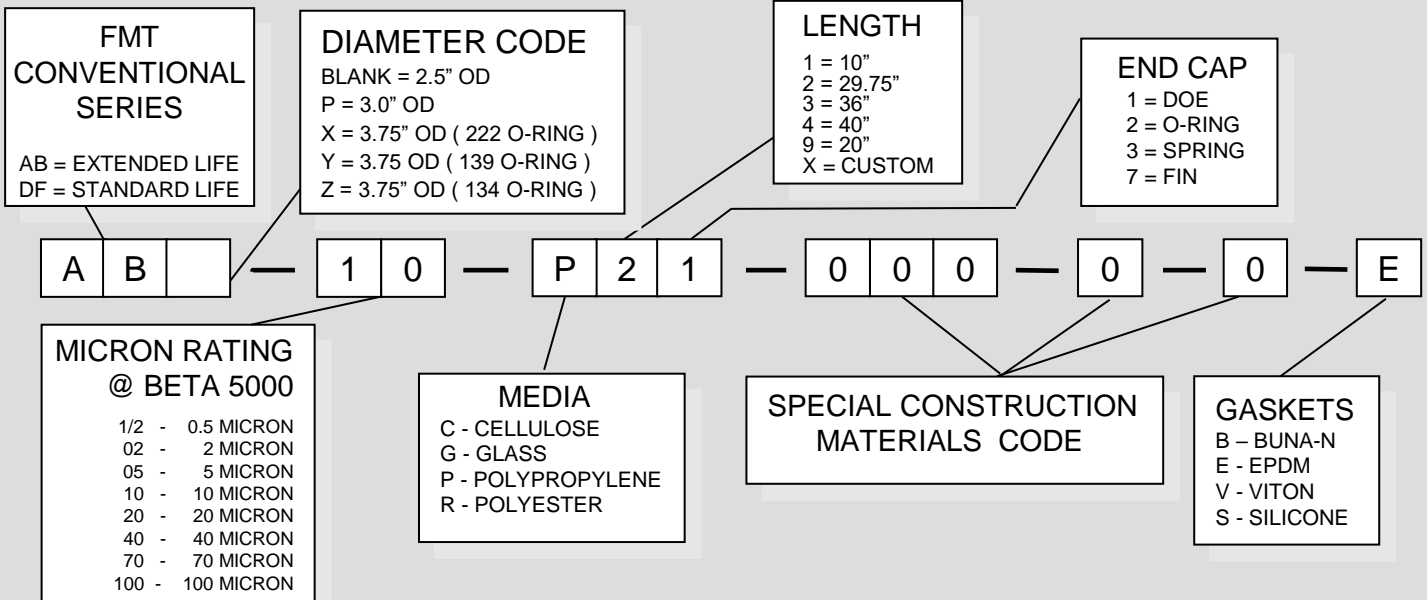
Beta Ratio (β)	Filter Efficiency (%)
100	99.00
1000	99.90
5000	99.98



FMT 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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FORM: FMT AB/DF SERIES 01/21

Filtration & Membrane Technology, Inc.

8342 Silvan Wind

Houston, Texas 7704

Phone: 713-870-1120

Fax: 713-422-2533

www.fmt-houston.com

*AC fine test dust constant challenge
polypropylene media

