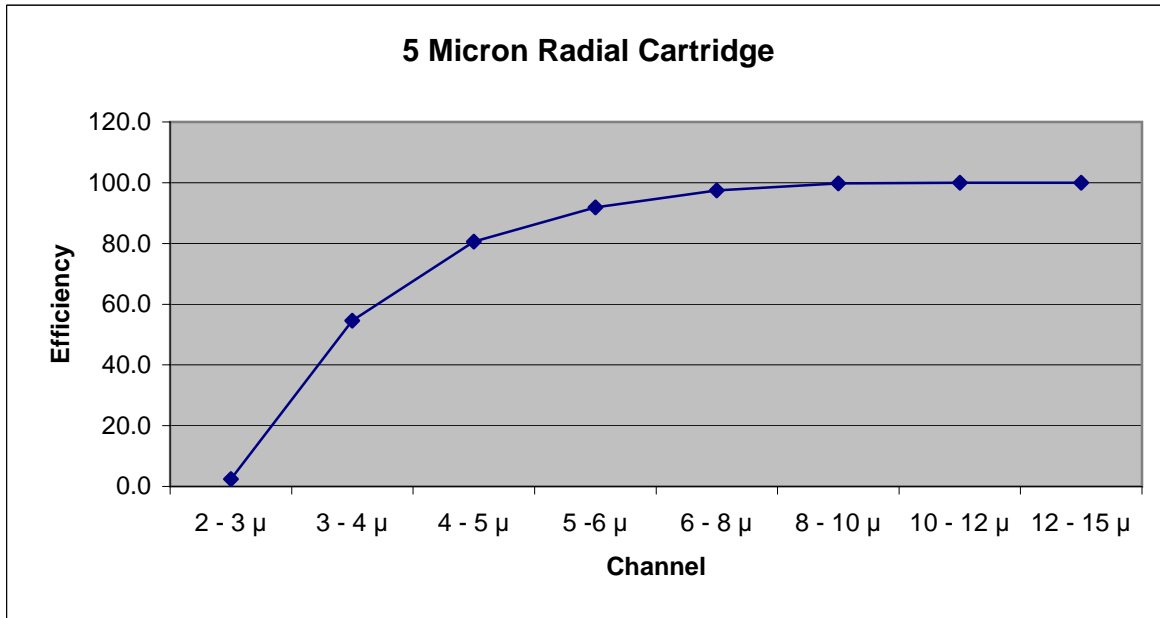




Test Method: Initial Retention Efficiency per ASTM F795-88
 Fluid: Water
 Flow Rate: 1.5 GPM/ft²
 Temperature: Ambient
 Contaminant: ISO Fine Test Dust
 Sample: CRE005 - 5 Micron Radial Cartridge

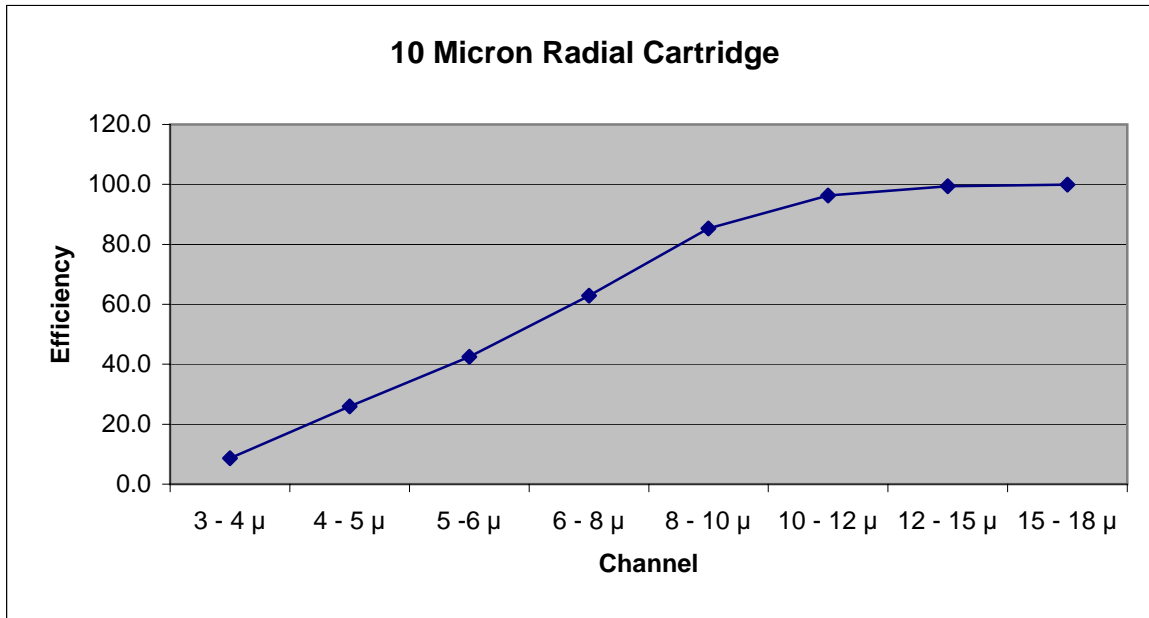
Efficiency (%) by Channel (microns)								
	2 - 3 μ	3 - 4 μ	4 - 5 μ	5 - 6 μ	6 - 8 μ	8 - 10 μ	10 - 12 μ	12 - 15 μ
CRE0054-2	2.5	50.1	77.2	89.8	96.5	99.5	99.9	100.0
CRE0054-4	2.5	54.7	80.9	92.0	97.7	99.8	100.0	100.0
CRE0054-5	-1.3	50.9	78.4	91.0	97.1	99.7	100.0	100.0
CRE0054-7	7.4	61.1	85.0	94.0	98.3	99.8	100.0	100.0
CRE0054-8	4.3	59.1	84.3	94.0	98.4	99.9	100.0	100.1
CRE0054-9	-1.0	51.5	78.2	90.5	96.8	99.6	100.0	100.0
<i>Average</i>	<i>2.4</i>	<i>54.6</i>	<i>80.6</i>	<i>91.9</i>	<i>97.5</i>	<i>99.7</i>	<i>100.0</i>	<i>100.0</i>

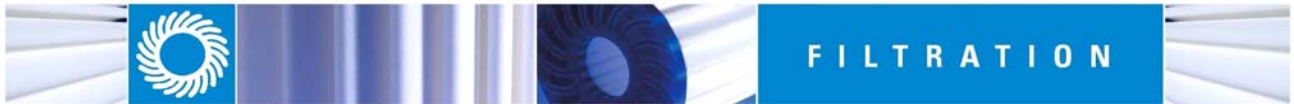




Test Method: Initial Retention Efficiency per ASTM F795-88
 Fluid: Water
 Flow Rate: 1.5 GPM/ft²
 Temperature: Ambient
 Contaminant: ISO Fine Test Dust
 Sample: CRE010 - 10 Micron Radial Cartridge

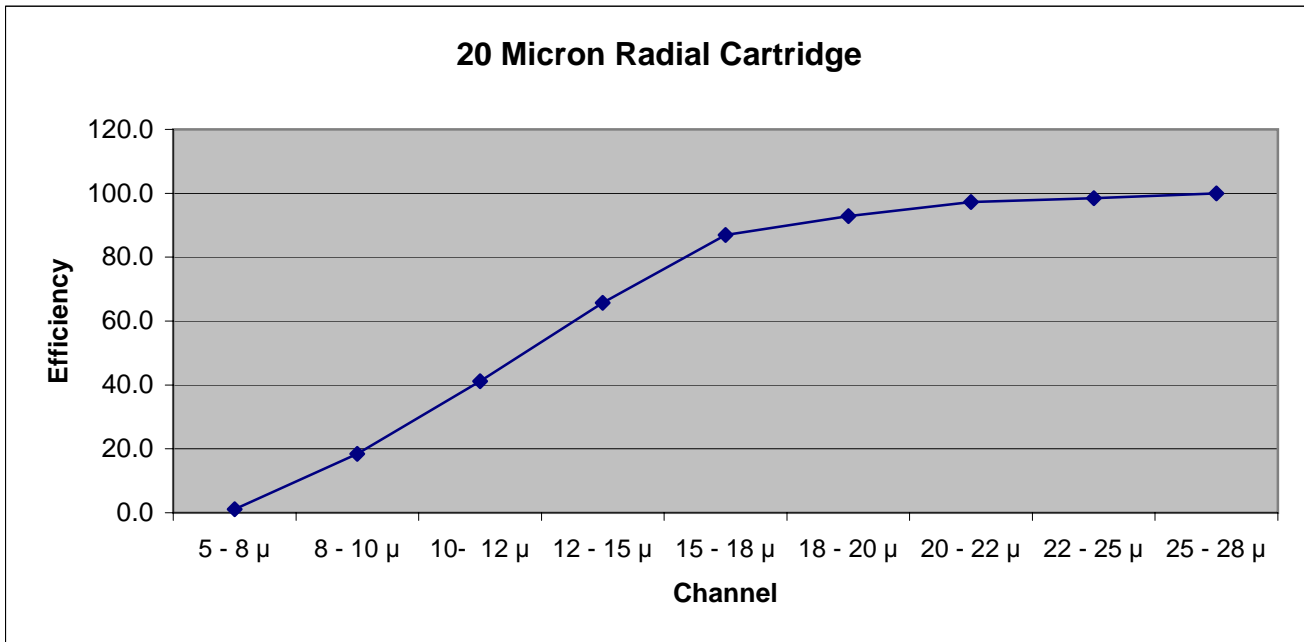
Efficiency (%) by Channel (microns)								
	3 - 4 μ	4 - 5 μ	5 - 6 μ	6 - 8 μ	8 - 10 μ	10 - 12 μ	12 - 15 μ	15 - 18 μ
CRE0104-1	2.9	16.2	31.8	53.4	80.7	95.3	99.4	100.0
CRE0104-2	8.2	25.7	43.6	65.2	87.7	97.3	99.7	99.8
CRE0104-3	10.3	26.8	42.7	62.7	85.0	96.0	99.4	100.0
CRE0104-4	8.2	23.5	39.1	59.7	82.7	95.5	99.4	99.7
CRE0104-5	2.4	16.5	32.0	52.6	80.4	94.0	98.8	99.8
CRE0104-6	0.4	15.4	30.7	53.2	79.4	94.6	98.5	99.6
CRE0104-7	16.7	39.5	58.3	77.0	92.5	98.8	100.0	100.1
CRE0104-9	19.9	43.7	61.7	79.1	93.7	98.9	100.0	100.0
<i>Average</i>	8.6	25.9	42.5	62.9	85.3	96.3	99.4	99.9





Test Method: Initial Retention Efficiency per ASTM F795-88
 Fluid: Water
 Flow Rate: 1.5 GPM/ft²
 Temperature: Ambient
 Contaminant: ISO Fine Test Dust
 Sample: CRE020 - 20 Micron Radial Cartridge

Efficiency (%) by Channel (microns)									
	5 - 8 μ	8 - 10 μ	10 - 12 μ	12 - 15 μ	15 - 18 μ	18 - 20 μ	20 - 22 μ	22 - 25 μ	25 - 28 μ
CRE0206-1	-5.1	17.8	40.8	68.1	87.2	94.0	100.0	100.0	100.0
CRE0206-2	0.4	16.8	41.2	65.1	84.6	95.0	100.0	97.6	100.0
CRE0206-3	-3.0	14.4	36.3	62.5	90.7	93.7	95.5	98.2	100.0
CRE0206-4	3.3	16.4	38.3	58.1	86.3	92.7	96.0	100.0	100.0
CRE0206-5	-1.1	16.1	42.0	63.6	87.5	88.6	93.7	94.5	100.0
CRE0206-6	0.3	14.1	35.3	64.1	80.5	90.6	95.9	98.6	100.0
CRE0206-7	-0.9	18.4	41.6	65.6	87.4	92.2	98.7	100.0	100.0
CRE0206-8	11.5	28.7	48.8	71.2	89.1	93.7	97.7	96.8	100.0
CRE0206-9	4.8	22.9	46.2	72.7	89.0	95.3	97.5	100.0	100.0
Average	1.1	18.4	41.2	65.7	86.9	92.8	97.2	98.4	100.0





Test Method: Initial Retention Efficiency per ASTM F795-88
 Fluid: Water
 Flow Rate: 1.5 GPM/ft²
 Temperature: Ambient
 Contaminant: ISO Course Test Dust
 Sample: CRE050 - 50 Micron Radial Cartridge

	Efficiency (%) by Channel (microns)						
	2 - 20 μ	20 - 30 μ	30 - 40 μ	40 - 50 μ	50 - 60 μ	60 - 70 μ	70 - 75 μ
CRE1006-1	48.6	65.5	80.2	92.6	98.2	98.8	99.8
CRE1006-2	27.6	61.2	81.9	92.8	96.7	98.3	99.2
CRE1006-3	-15.1	66.6	84.5	93.2	97.0	99.2	100.0
CRE1006-4	3.2	67.8	87.4	95.3	98.9	99.2	99.7
CRE1006-5	-12.2	47.4	78.6	94.9	100.0	100.0	100.0
CRE1006-6	9.8	54.4	77.7	93.0	99.5	99.8	100.0
CRE1006-7	-12.1	85.9	88.7	97.1	99.0	99.9	99.9
CRE1006-8	-30.0	91.2	98.5	98.3	99.1	99.6	100.0
Average	2.5	67.5	84.7	94.7	98.6	99.4	99.8

