



Test Method: Clean Water Permeability
 Fluid: Water
 Temperature: Ambient
 Sample: CRE005 - 5 Micron Radial Cartridge

2.65" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE00512NNNN	6.8	5.44	5.0
CRE00512NNNN	6.8		
CRE00512NNNN	3.4		
CRE00512NNNN	4.25		
CRE00512NNNN	5.7		
CRE00512NYNN	5.7		

4.5" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE00564NNNN	9.26	9.07	8.3
CRE00564NNNN	8.70		
CRE00564NNNN	9.43		
CRE00564NNNN	8.93		
CRE00564NNNN	8.93		
CRE00564NNNN	9.17		

6.1" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE00566NNNN	19.23	18.69	18.0
CRE00566NNNN	19.80		
CRE00566NNNN	17.70		
CRE00566NNNN	17.09		
CRE00566NNNN	18.52		
CRE00566NNNN	18.87		
CRE00566NNNN	19.61		



Test Method: Clean Water Permeability
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 Sample: CRE010 - 10 Micron Radial Cartridge

2.65" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE01062ANBN	9.4	9.33	8.0
CRE01062ANBN	10.15		
CRE01062ANBN	9.3		
CRE01062ANBN	8.7		
CRE01062ANBN	9.15		
CRE01062ANBN	9.27		

4.5" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE01064NNNN	12.20	12.04	10.1
CRE01064NNNN	12.50		
CRE01064NNNN	12.82		
CRE01064NNNN	12.05		
CRE01064NNNN	12.50		
CRE01064NNNN	10.20		

6.1" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE01066NNNN	42.86	39.08	30.0
CRE01066NNNN	42.86		
CRE01066NNNN	40.54		
CRE01066NNNN	42.86		
CRE01066NNNN	36.59		
CRE01066NNNN	36.59		
CRE01066NNNN	31.25		



Test Method: Clean Water Permeability
 Fluid: Water
 Temperature: Ambient
 Sample: CRE020 - 20 Micron Radial Cartridge

2.65" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE02062ANBN	15	13.73	11.5
CRE02062ANBN	17.65		
CRE02062ANBN	17.8		
CRE02012NNNN	11.33		
CRE02012NNNN	11.33		
CRE02012NNNN	9.27		

4.5" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE02064NNNN	15.00	16.44	15.0
CRE02064NNNN	16.48		
CRE02064NNNN	17.86		
CRE02064NNNN	16.48		
CRE02064NNNN	16.13		
CRE02064NNNN	16.67		

6.1" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE02066NNNN	93.75	117.92*	>45
CRE02066NNNN	115.38		
CRE02066NNNN	115.38		
CRE02066NNNN	136.36		
CRE02066NNNN	136.36		
CRE02066NNNN	125.00		
CRE02066NNNN	103.18		

* Calculated Value. Beyond pump capacity. Core limitation will alter value.



Test Method: Clean Water Permeability
 Fluid: Water
 Temperature: Ambient
 Sample: CRE050 - 50 Micron Radial Cartridge

2.65" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE05062ANBN	31.2	30.93	>22
CRE05062ANBN	30.4		
CRE05062ANBN	31.2		
CRE05062ANBN	30.60		
CRE05062ANBN	31.20		
CRE05062ANBN	31.00		

4.5" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE05064NNNN	18.07	18.85	18.0
CRE05064NNNN	17.05		
CRE05064NNNN	19.74		
CRE05064NNNN	18.75		
CRE05064NNNN	19.48		
CRE05064NNNN	20.00		

6.1" Radial Cartridge

	<i>Flow rate @ 1 psid</i>		
<i>Cartridge ID</i>	<i>Flow Rate</i>	<i>Average</i>	<i>Published</i>
CRE05066NNNN	214.29	206.63*	>50
CRE05066NNNN	214.29		
CRE05066NNNN	214.29		
CRE05066NNNN	187.50		
CRE05066NNNN	187.50		
CRE05066NNNN	214.29		
CRE05066NNNN	214.29		

* Calculated Value. Beyond pump capacity. Core limitation will alter value.