



Celatom Diatomaceous Earth Filter Aids
TECHNICAL DATA SHEET

EaglePicher™ Filtration & Minerals, Inc.

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Typical Physical & Chemical Properties

Grade #	FN-1	FN-2	FN-6	FP-1SL	FP-1W	FP-2	FP-3	FP-4	FP-6	FP-12	FW-6	FW-12	FW-14	FW-18	FW-20	FW-40	FW-50	FW-60	FW-80
Sieve Analysis ¹																			
%+150 mesh	0.2	1.1	0.1	0.5	1.4	1.2	1.5	2.5	6.5	9.5	6.9	7.2	7.7	10.0	11.0	21.0	22.8	24.7	46.0
%+325 mesh	7.7	11.0	6.4	1.8	5.5	1.9	8.7	11.4	16.0	21.0	-	-	-	-	-	-	-	-	-
Median Particle Diameter (microns)	13.0	16.0	12.0	12.5	12.8	13.0	14.0	15.0	18.0	24.0	18.0	24.0	28.0	31.0	33.0	40.0	42.0	48.0	77.0
Permeability ² (darcy)	0.035	0.060	0.020	0.070	0.100	0.120	0.200	0.300	0.500	1.000	0.480	0.800	1.300	1.700	2.100	3.200	3.500	5.000	12.000
Density (lbs/ft ³)																			
Wet Bulk	24	21	26	25	25	25	25	23	23	24	23	20	20	20	20	20	19	19	19
Dry Bulk	12	14	12	12	12	12	12	12	12	13	12	13	14	14	14	15	15	15	16
Density (g/l)																			
Wet Bulk	380	340	420	400	400	400	400	370	370	380	370	320	320	320	320	320	300	300	300
Dry Bulk	190	220	190	190	190	190	190	190	190	216	190	210	220	220	220	240	240	240	260
pH (10% Slurry)	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	7.0	7.0	9.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0
Color	Buff	Buff	Buff	Buff/Pink	Buff/Pink	Buff/Pink	Buff/Pink	Buff/Pink	Buff/Pink	Buff/Pink	Lt. Pink	Lt. Pink	White	White	White	White	White	White	White
GE Brightness	80	77	80	-	-	-	-	-	-	-	68	78	84	84	84	85	85	85	85

1 - w/Tyler Screen; +150 mesh = >105 microns; +325 mesh = >44 microns

2 - determined w/VEL Permeameter

DE = Diatomaceous Earth

1/05

(FN-1/2/6 Grades)

Structure.....Natural DE
 Free Moisture (max% H₂O).....5.0
 Specific Gravity.....2.00
 Refractive Index.....1.43
 SiO₂.....89.2%
 Al₂O₃.....4.0%
 Fe₂O₃.....1.5%
 CaO.....0.5%
 MgO.....0.3%
 Other Oxides.....0.5%
 Loss On Ignition.....4.0%

FP Grades

Structure.....Calcined DE
 Free Moisture (max% H₂O).....0.5
 Specific Gravity.....2.25
 Refractive Index.....1.43
 SiO₂.....92.6%
 Al₂O₃.....3.8%
 Fe₂O₃.....1.6%
 CaO.....0.6%
 MgO.....0.3%
 TiO₂.....0.2%
 Na₂O.....0.35%
 P₂O₅.....0.02%
 MnO.....<0.01%
 K₂O.....0.2%
 Cr₂O₃.....<0.01%
 Loss On Ignition.....0.3%

FW-6 thru FW-80 Grades

Structure.....Flux-Calcined DE
 Free Moisture (max% H₂O).....0.5
 Specific Gravity.....2.33
 Refractive Index.....1.46
 SiO₂.....89.0%
 Al₂O₃.....4.1%
 Fe₂O₃.....1.5%
 CaO.....0.6%
 MgO.....0.3%
 TiO₂.....0.2%
 Na₂O.....4.0%
 P₂O₅.....0.02%
 MnO.....<0.01%
 K₂O.....0.2%
 Cr₂O₃.....<0.01%
 Loss On Ignition.....0.1%