



Celatom

Diatomaceous Earth Filter Aids

TECHNICAL DATA SHEET



Ep Minerals™
AN EAGLEPICHER COMPANY

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Typical Physical & Chemical Properties

Grade #	FN-1	FN-2	FN-6	FP-1	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-70	FW-80
Sieve Analysis ¹																			
%+150 Mesh	0.2	1.1	0.1	0.9	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	30.0	48.0
%+325 Mesh	7.7	11.0	8.4	4.0	1.9	8.7	11.4	16.0	21.0	-	-	-	-	-	-	-	-	-	-
Median Particle Diameter (microns)	13.0	16.0	12.0	12.7	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	62.0	77.0
Permeability ² (darcy)	0.035	0.060	0.020	0.085	0.120	0.200	0.300	0.500	1.100	0.480	0.800	1.300	1.700	2.100	3.200	3.500	5.000	7.000	12.000
Density (lbs/ft ³)																			
Wet Bulk	24	21	26	25	25	25	23	23	24	23	20	20	20	20	20	19	19	19	19
Dry Bulk	12	14	12	12	12	12	12	12	13	12	13	14	14	14	15	15	15	16	16
Density (g/l)																			
Wet Bulk	380	340	420	400	400	400	370	370	380	370	320	320	320	320	320	300	300	300	300
Dry Bulk	190	220	190	190	190	190	190	190	216	190	210	220	220	220	240	240	240	260	260
pH (10% Slurry)	7.0	7.0	7.0	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	10.0
Color	Buff	Buff	Buff	Buff/Pink	Buff/Pink	Buff/Pink	Buff/Pink	Buff/Pink	Buff/Pink	Lt. Pink	Lt. Pink	White	White	White	White	White	White	White	White
GE Brightness	80	77	80	-	-	-	-	-	-	68	78	84	84	84	85	85	85	83	83

(FN-1/2/6 Grades)

Structure.....	Natural DE
Free Moisture (max% H ₂ O).....	5.00
Specific Gravity.....	2.00
Refractive Index.....	1.43
SiO ₂	89.2%
Al ₂ O ₃	4.0%
Fe ₂ O ₃	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% H ₂ O).....	0.5
Specific Gravity.....	2.25
Refractive Index.....	1.43
SiO ₂	92.6%
Al ₂ O ₃	3.8%
Fe ₂ O ₃	1.6%
CaO.....	0.6%
MgO.....	0.3%
TiO ₂	0.2%
Na ₂ O.....	0.35%
P ₂ O ₅	0.02%
MnO.....	<0.01%
K ₂ O.....	0.2%
Cr ₂ O ₃	<0.01%
Loss on Ignition.....	0.3%

FW-6 thru FW-80 Grades

Structure.....	Flux-Calcined DE
Free Moisture (max% H ₂ O).....	0.5
Specific Gravity.....	2.33
Refractive Index.....	1.46
SiO ₂	89.0%
Al ₂ O ₃	4.1%
Fe ₂ O ₃	1.5%
CaO.....	0.6%
MgO.....	0.3%
TiO ₂	0.2%
Na ₂ O.....	4.0%
P ₂ O ₅	0.02%
MnO.....	<0.01%
K ₂ O.....	0.2%
Cr ₂ O ₃	<0.01%
Loss on Ignition.....	0.1%

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

² Determined w/VEL Permeameter