

Bentonite



Bentonite is a montmorillonite-type clay (a hydrous silicate of alumina) that was developed from the alteration of volcanic ash in seawater.

Bentonite called “the clay of 1,000 uses,” and is unique because of its high absorption and swelling rate.

Bentonite is widely used in drilling mud for the development of oil and gas resources. In addition to its industrial uses, bentonite is used as an absorbent such as cat litter, as a sealer for irrigation ditches and reservoirs, for pelletizing iron ore, as a bonding in foundry sand, and in pharmaceuticals.





Bentonite

API-13A , Off-White

XRF & Physical Analysis

Row	Sample	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	CaO (%)	Na2O (%)	K2O (%)
1	Bentonite- API	56.76	14.29	5.37	3.28	1.64	0.30

Row	Sample	MgO (%)	TiO2 (%)	MnO (%)	P2O5 (%)	LOI (%)	S (ppm)
1	Bentonite- API	3.12	0.697	0.066	0.120	13.91	440

Row	Parameter	Criteria	Result
1	Viscometer dial reading at 600 RPM	Min 30	35
2	Plastic Viscosity	Min 7	7
3	Ratio (Yield Point/Plastic Viscosity)	Max 3	2.25
4	Filtrate Volume	Max 15	13
5	Residue of diameter greater than 200 mesh (%)	Max 4	1.2
6	Moisture (%)	10-12	10

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High Yield , Beige
XRF & Physical Analysis

Row	Sample	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	CaO (%)	Na2O (%)	K2O (%)
1	Bentonite-High Yield	52.89	14.09	6.67	3.85	2.14	0.61

Row	Sample	MgO (%)	TiO2 (%)	MnO (%)	P2O5 (%)	LOI (%)	SO3 (ppm)
1	Bentonite-High Yield	3.47	0.842	0.092	0.158	14.07	2399

Row	Parameter	Specification
1	Viscometer dial reading at 600 RPM	70-75
2	Plastic Viscosity	9-10
3	Ratio (Yield Point / Plastic Viscosity)	Max 7
4	Filtrate Vol.	12.5-13
5	Residue of diameter grater than 200 mesh(%)	Max 4
6	Moisture (%)	10-12

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Pretium has different types of bentonite with the best quality and diverse features for different applications.





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API-13A , White

XRF & Physical Analysis

Row	Sample	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	CaO (%)	Na2O (%)	K2O (%)
1	Bentonite- API	69.33	10.21	1.11	0.28	4.25	5.14

Row	Sample	MgO (%)	TiO2 (%)	MnO (%)	P2O5 (%)	LOI (%)	SO3 (ppm)
1	Bentonite- API	0.17	0.11	0.090	0.160	8.97	0.01

Row	Parameter	Criteria	Result
1	Viscometer dial reading at 600 RPM	Min 30	36
2	Plastic Viscosity	Min 7	7
3	Ratio (Yield Point/Plastic Viscosity)	Max 3	2.5
4	Filtrate Volume	Max 15	15
5	Residue of diameter greater than 200 mesh (%)	Max 4	1.2
6	Moisture (%)	10-12	11