

NATURAL BENTONITE GEL



DESCRIPTION

Natural Bentonite Gel is a 100% pure, chemically unaltered high yield western sodium bentonite which contains no polymer additives. It is an API-13A grade bentonite that yields 90 barrels (minimum) of fluid to one ton of material.

APPLICATION

Natural Bentonite Gel is ideal for use in environmental monitoring well and geotechnical drilling applications. It diminishes fluid loss conditions, reduces seeping into permeable formations, and helps eliminate loss circulation conditions.

RECOMMENDED USAGE

Normal Formation : Mix 30-50 lbs of **Natural Bentonite Gel** per 100 gallons of makeup water.
Unstable Formation : Increase to 45-90 lbs per 100 gallons of makeup water.

PACKAGING

Available in 50 lb multi-walled paper bags.

TYPICAL CHEMICAL ANALYSIS

Silica	SiO ₂	65.00	%
Alumina	Al ₂ O ₃	20.20	%
Ferric Oxide	Fe ₂ O ₃	2.30	%
Manganese Oxide	MnO	1.00	%
Titanium Oxide	TiO ₂	0.10	%
Lime	CaO	0.70	%
Magnesia	MgO	1.00	%
Potash	K ₂ O	0.80	%
Soda	Na ₂ O	3.10	%
Sulphur	S ₂	TR	
L.O.I.		7.07	%
pH		8.4	

X-RAY ANALYSIS

85 %	Montmorillonite
5%	Quartz
5%	Feldspars
2%	Cristobalite
2%	Illite
1%	Calcite and Gypsum

SPECIFICATIONS	ANALYSIS	API SPECIFICATIONS	
Yield Point/Plastic Viscosity Ratio	0.4 – 0.5	1.5	Maximum
Plastic Viscosity	12 – 16	10 CPS	Minimum
Filtrate, Relative, 30 min.	11.0 – 12.0	12.5 cm ³	Maximum

