



CERTIFICATE OF ANALYSIS



MINERAL COMPOSITION*

Zeolite	85 - 100 %	Other Clays	0-5%
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* Semi Quantitative whole rock analysis (bulk mineralogy) has been done using powder X-ray Diffraction Method

CHEMICAL COMPOSITION*

SiO2	65 - 72 %	FeO2	0.7 - 1.9 %	MnO	0 - 0.08 %
Al2O3	10 - 12 %	MgO	0.9 - 1.2 %	Cr2O3	0 - 0.01 %
Cao	2.4 - 3.7 %	Na2O	0.1-0.65 %	P2O5	0 - 0.03 %
K2O	2.3 - 3.8 %	LOI***	9 -14 %	SiO2/Al2O3	5.4 -7.2 %

** Analysed by XRF Spectrometer

** Loss of Ignition

PHYSICAL PROPERTIES

Appearance	Ivory white	Single Point Surface	39 m2/g	Solubility	None
Smell	None	Micropore Area	11 m2/g	Bulk Density	650-850 Kg/M3
Porosity	45-50%	Mesopore Area	29 m2/g	pH	7.0 - 8.0
Hardness	2 - 3 Mohs	Effective Diameter of Pores	4 angstrom	Mudding Down	None
Water Absorption	42 - 50%				

CATION EXCHANGE CAPACITY (CEC)

Total CEC: 1.5 -1.9 meq/g

+ Methylene Blue Chloride Method

HEAVY METAL ANALYSIS

Arsenic (As)	< 30 mg/kg (ppm)
Cadmium (Cd)	<0.6 mg/kg (ppm)
Lead (Pb)	< 60 mg/kg (ppm)
Mercury (Hg)	<0.1 mg/kg (ppm)

++ICP-OES-determination after micr ovawe assisted acid digestion