



## Castle Mountain Natural Zeolite

### CHEMICAL ANALYSIS

Mineral Content	%
SiO <sub>2</sub> (Silicon Dioxide)	71.81
Al <sub>2</sub> O <sub>3</sub> (Aluminium Oxide)	12.1
Fe <sub>2</sub> O <sub>3</sub> (Iron Oxide)	1.14
Na <sub>2</sub> O (Sodium Oxide)	2.33
K <sub>2</sub> O (Potassium Oxide)	0.90
CaO (Calcium Oxide)	2.60
MgO (Magnesium Oxide) 1.2	0.65
TiO <sub>2</sub> (Titanium Dioxide) 0.22 35	0.22
MnO (Manganese Oxide)	0.03
P <sub>2</sub> O <sub>5</sub> (Phosphorus Pentoxide)	<.02
SrO (Strontium Oxide)	0.22
Loss on Ignition	7.77

Select trace elements occur in minor quantities  
expressed as ppm

Ba (Barium)	10
Co (Cobalt)	1.2
Cr (Chromium)	35
(Selenium)	<1
Cu (Copper)	19
Zn (Zinc)	33
P (Phosphorus)	187

### PHYSICAL PROPERTIES

Specific Gravity (whole rock)	~2.3T/m <sup>3</sup>
Bulk Density (depending on particle size)	(700-1400kg/m <sup>3</sup> )
Ambient Moisture	Normal <5%
Hardness (MHO'S SCALE)	~5.0
Cation Exchange Capacity (CEC) meq/100g ANZ38 powder	147 average

### MINEROLOGY

Minerals Present	
Major	Clinoptilolite (w% of the total Zeolite content) 85 %
Other	Mordenite (w% of the total Zeolite content) 15%
Minor	Quartz, Feldspar, Montmorillonite

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