

Zeolite

The Zeolite Mineral Type Is CLINOPTILOLITE

Chemical Analysis

S ₁ O ₂	67.5%
Al ₂ O ₃	12.7%
Fe ₂ O ₃	1.1%
Na ₂ O ₃	2.3%
K ₂ O	1.8%
CaO	2.3%
MgO	0.9%
Loss of Ignition	11.4%



Australian Zeolite 1 to 2



Australian Zeolite 3 to 5

The following elements occur in minor quantities expressed as ppm.

Cu	19 ppm
Zn	33 ppm
Mn	325 ppm
Pb	69 ppm
Cr	18 ppm
Cd	0.6 ppm



Australian Zeolite microfibre



NZ zeolite 9 to 12

Physical Properties

The main physical and chemical data of our zeolites rock are:

Porosity %	49.75
Pore volume cm ³ /g	0.473
Real density g/cm ³ - whole rock	2.4872
Apparent density g/cm ³	1.2500
Ion exchange capacity meq/100g (CEC)	146
Specific surface area m ² /g	450
pH value of 10% suspension (from 7.08)	7.82
Conductivity of 10% suspension uS/cm	106.90
Clinoptilolite content w%	53.56
Remaining content, predominantly feldspar, unreacted volcanic glass and the clay minerals smectite and motmorilionitemineral	
Characteristic adsorption energy E kcal/mol	4.166
Adsorption amount of CO ₂ in nm ³ /ga	34.0

The above information supplied by Dr Janos Papp of the Central Research Institute of Chemistry of Budapest.