



**PRODUCT INFO
& DATASHEET**

ZEOLITE NATURAL AGRICULTURE

Clinoptilolite granular

12/2016

1/ PRODUCT SPECIFICATIONS

Product name : Natural agriculture Zeolite, Clinoptilolite granular
Available granulometry : 0.6-1.5mm, 1.5-3mm and 3-5mm.
Chemical name : Hydrated calcium / potassium / magnesium aluminosilicate.
CAS number : 12173-10-3

2/ PRODUCT CHARACTERISTICS

Principal Components : Clinoptilolite 88 - 95% (XRD Analysis)
Other Components : Montmorillonite 2-5%, Feldspars, 3-5%, Muscovite 0-3%, Cristobalite 0-2%
Colour : Ivory
Rock density : 2000 - 2400 kg/m³
Hardness MOHS scale : 2.0 – 3.0

3/ CHEMICAL COMPOSITION

SiO ₂ : 65 - 72 %	<u>Heavy Metals :</u>
Al ₂ O ₃ : 10 - 12 %	As <7 ppm
K ₂ O : 2.3 – 3.5 %	Cd <1 ppm
CaO : 2.5 – 3.7%	Pb <30 ppm
MgO : 0.9 – 1.2%	Hg <0.1 ppm
Na ₂ O : 0.3 – 0.65 %	
Fe ₂ O ₃ : 0.8 – 1.9 %	
TiO ₂ : 0 – 0.10 %	

Cation exchange capacity (CIC)	1.5 a 1.9 meq/g
Apparent Porosity	45 - 50 %
Specific Surface Area (BET Method)	70 – 80 m ² /g
pH (10% in water)	7 - 8
Thermal Stability	> 450 °C
Chemical Stability (pH)	3 < pH < 11
Bulk Density of powder	0.85 g/cm ³

4/ PACKING

In 25 kg pp bags on pallets (1000 kg) or in 1000 kg big bags.

5/ RECOMMENDED APPLICATIONS

Growing media, substrates, soil treatment, organic/ecological agricultural products, construction and maintenance of golf courses.

Absorbent medium for animals, industrial absorbent, dehumidifier.