



**PRODUCT INFO
& DATASHEET**

ZEOLITE NATURAL AQUACULTURE

12/2016

1/ PRODUCT SPECIFICATIONS

Product name : Natural Zeolite, type Clinoptilolite dried at 350 °C, crushed & classified
Available granulometry : 0.5-1mm, 1-2mm, 2-5mm, 4-8mm, 8-16mm and 16-32mm.
Chemical name : Hydrated potassium / calcium / sodium aluminosilicate.
CAS number : 12173-10-3

2/ PRODUCT CHARACTERISTICS

Principal Components : Clinoptilolite 82 - 86% (XRD Analysis)
Other Components : Feldspars, Illite, Cristobalite and traces of Quartz
Colour : greenish grey
Rock density : 2200 - 2440 kg/m³
Hardness MOHS scale : 3.0 – 3.5

3/ CHEMICAL COMPOSITION

SiO₂ : 68.15 %
Al₂O₃ : 12.30 %
K₂O : 2.80 %
CaO : 3.95 %
MgO : 0.90 %
Na₂O : 0.75 %
Fe₂O₃ : 1.30 %
TiO₂ : 0.20 %

Cation exchange capacity (CIC)
Ca²⁺ : 1.20 to 1.96 meq/g
NH₄⁺ : 1.20 to 1.50 meq/g
Apparent Porosity : 24 -32 %
Specific Surface Area (BET Method) : 30 – 50 m²/g
Thermal Stability : < 450 °C
Chemical Stability (pH) : 3 < pH < 11
Bulk Density of powder : 0.58 – 0.84 g/cm³

4/ PACKING

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

5/ RECOMMENDED APPLICATIONS

Filtration of water from swimming pools, ponds, aquariums, fish farms and recycled water.
Treatment of municipal and industrial waters, removal of ammonium and heavy metals.

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