



**PRODUCT INFO  
& DATASHEET**

# **ZEOLITE NATURAL NUTRITION**

## *Clinoptilolite powder – Animal feed additive*

12/2016

### **1/ PRODUCT SPECIFICATIONS**

Product name : Natural nutrition Zeolite, Clinoptilolite of sedimentary origin  
Available granulometry : <425 microns, <700 microns  
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/m<sup>3</sup>  
Hardness MOHS scale : 2.0 – 3.0

### **3/ CHEMICAL COMPOSITION**

SiO <sub>2</sub> : 65 - 72 %	<u>Heavy Metals :</u>
Al <sub>2</sub> O <sub>3</sub> : 10 - 12 %	As <7 ppm
K <sub>2</sub> 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 <sub>2</sub> O : 0.3 – 0.65 %	
Fe <sub>2</sub> O <sub>3</sub> : 0.8 – 1.9 %	
TiO <sub>2</sub> : 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 <sup>2</sup> /g
pH (10% in water)	7 - 8
Thermal Stability	< 450 °C
Chemical Stability (pH)	3 < pH < 11
Bulk Density of powder	0.65 – 0.85 g/cm <sup>3</sup>

### **4/ PACKING**

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

### **5/ RECOMMENDED APPLICATIONS**

Animal feed additive - conforms with EU directive 70/524/EEC.