

GENERAL INFORMATION

Chemical Abstract Name:	Clinoptilolite
Chemical Family:	Natural Zeolite
Chemical Name:	Hydrated Potassium,Calcium,Sodium Aluminosilicate
Chemical Formula:	(Ca,Na,K)₆Al₆Si₃₀O₇₂.24H₂O
Cas No:	12173-10-3
Origin:	Gördes Manisa TURKEY
Hts Code - Custom Code:	2530 9000 9039
Einecs No:	Not Found

MINERAL CONTENT (X-RAY DIFFRACTION METHOD)

Clinoptilolite:	% 85-90
Other Clays:	% 0-5
Opal:	% 0-10

CHEMICAL COMPOSITION % (XRF SPECTROMETER)

SiO ₂	70,33	K ₂ O	4,64	TiO ₂	0,1
Al ₂ O ₃	12,15	MnO	< 0,1	MgO	0,52
CaO	2,08	Na ₂ O	0,68	K	0,8
Fe ₂ O ₃	1,14	P ₂ O ₅	0,04	Na	0,3
Pb	0	Cu	18 ppm	Cr	0,1 ppm
Cd	0,1 ppm	Ni	1,1 ppm	Hg	0
Zn	188 ppm				

PHYSICAL CHARACTERISTICS

Appereance:	Granular or Powder	Water Solubiliy:	None
Porosity:	% 40	Bulk Density:	1-1,2 g / cm ³
Color:	Light Cream	Hardness:	2-3 Mohs
Particle Size:	50 micron - 25 mm	Water Adsroption:	% 42 - 50
Smell:	None	Surface Area:	40 - 45 m ² / gram
Ph:	5,5 - 7	Water Retention:	% 35 - 75

CATION EXCHANGE CAPACITY (CEC)

Total CEC:	100 - 160 meq / 100 g (Methylene Blue Chloride Method)
Main Exchangeable Cations:	N, K, Ca, Na, Fe, Zn, Al, Ba, Pb, Rb, Li, Cu,
Primary Absorbing Gases:	CO, CO ₂ ,SO ₂ ,H ₂ S,NH ₃ , HCHO, Ar, O ₂ , N ₂ , H ₂ O, He, H ₂ , Kr, Xe, CH ₂ OH

The information given above is intended to give an overview and may vary depending on the nature of the product. Although the information is at the suggestion level, there is no guarantee for the accuracy of the results. Before use, the customer decides the suitability and effectiveness of the product and takes on the risks that may occur. ESEN Agriculture Inc. has the right to change the specified features.

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