

FILTER GRADE NATURAL AUSTRALIAN ZEOLITE

Introduction And Background

Natural zeolites are the least-known treasures for environmental pollution control, separation science and technology. Natural zeolites are volcanic minerals with unique characteristics. Their chemical structure classifies them as hydrated aluminosilicates, comprised of hydrogen, oxygen, aluminum, and silicon, arranged in an interconnecting lattice structure. The arrangement of these elements in a zeolite crystal gives rise to a honeycomb framework with consistent diameter connecting channels that vary in size from 2.5 to 5.0 angstroms, depending on the type of zeolite mineral. This unique structure makes zeolites different from "other" aluminosilicates (kaolin, bentonite, etc) due to the following special properties:

Gas adsorption : the ability to selectively adsorb molecules of gases and vapors

Water absorption/desorption: the ability to reversibly absorb/desorb water without any chemical or physical change in the zeolite matrix

Ion exchange : the ability to exchange inherent cations for other cations on a basis of ion selectivity

Technical Data

General Description	:	Clean, Hard Durable Pink Grains of Material
Uses	:	As a Filter Medium in Multi-Media Water Filtration Units.
Particle Sizing	:	1mm – 2mm
Other Physical Characteristics	:	Type : Clinoptilolite
		Bulk Density : 1,250 kg/m ³
		Hardness (Moh) : 7
		Ammonia Odour Adsorption: 160 m.eq./100 gms
		Ammonia Ion Exchange* : 104 m.eq./100 gms
		Cation Exchange : Na 12
		K 4
		Ca 85
		Mg 19
		Total : 119 m. eq./100 gms

* NH₃ gas adsorbed by 0.5g sample at "Standard" conditions, in a moist atmosphere.

Packing : Woven polypropylene sacks of 25kg capacity;
40 x 25kg sacks (1MT) per pallet shrink-wrapped.
1,000kg WPP Bulk Bags.

Ordering or Information:

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