

Zeolite Specification

Description:

Natural Zeolite (Clinoptilolite grade) is a crystalline, hydrated aluminosilicate of alkali and alkaline earth metals. It features high cation exchange capacity ($CEC \geq 120$ meq/100g), strong adsorption properties, and a porous crystalline structure that enables excellent ion exchange and molecular sieving performance.

The product is supplied as a light gray to cream powder or granule and is used across agricultural, environmental, and industrial applications.

Applications:

- Agriculture & Soil Amendment (ammonium adsorption, pH buffering)
- Livestock & Poultry (odor control, litter treatment)
- Odor & Gas Control (NH_3 , VOC adsorption)
- Construction & Oilfield (lightweight aggregate, drilling fluid additive)

Packing:

- Palletized bag in container
- 1 m³ jumbo bags in container

Health and Safety:

- Zeolite is **chemically inert and non-toxic** under normal handling conditions.
- Avoid generating or inhaling dust; prolonged exposure to airborne particles may cause mild respiratory irritation.
- Use **adequate ventilation** and **personal protective equipment (PPE)** such as masks, gloves, and safety glasses when handling fine powders.
- Store in a **cool, dry, and well-ventilated area**, away from moisture, acids, and incompatible materials.
- Dispose of waste material in accordance with **local environmental regulation**

Zeolite Analysis

Component	Unit	Typical Range
SiO ₂	%	68.95
Al ₂ O ₃	%	11.14
Fe ₂ O ₃	%	0.97
CaO	%	4.83
MgO	%	0.79
Na ₂ O	%	0.95
K ₂ O	%	0.95
SO ₃	%	0.068
L.O.I (Loss on Ignition)	%	10.64

<i>Physical Properties</i>		
Parameter	Unit	Typical Value
Appearance	—	Fine powder, cream to light gray
Moisture (as packed)	%	≤1.0
Bulk Density	g/cm ³	0.85 – 0.95
pH (in 5% suspension)	—	7.5 – 9.0
Zeolite Raw & Powder		Applications
		