



Zeolite Premier Technical Data Sheet

Compost and Soil Amendment

Description: Empirical Formula: $(K,Ca,Na)_{20} Al_2O_3 10SiO_2 6H_2O$, Cas No. 12173-10-3

Zeolite Premier is 100% all natural Clinoptilolite Zeolite

Zeolite is a natural volcanic mineral, micro-porous with an open, stable, three-dimensional honeycomb structure negatively charged. The structure loosely holds Cations (negatively charged ions) that are available for exchange. The ability to exchange one cation for another is called "Cation Exchange Capacity (CEC)", this allows the clinoptilolite to act as nature's sponge, allowing larger molecules to be separated from smaller molecules.

Natural Clinoptilolite Zeolite is US FDA Classified as "GRAS" (generally regarded as safe) under FDA title 21CFR part 182.7279 and 40 CFR part 180.1001. Used as a soil amendment increases crop yield and fruit size by absorbing fertilizer run off, water, prevents hydric stress, controls acidity or alkalinity by balancing Ph, retains Nitrogen in the root zone, plant accessible but not soluble in water, holds fertilizer and water in the root zone. Controls odors and flies during the composting process.

Composition

Silica SiO_2 67% Alumina Al_2O_3 11% Calcium CaO 9.72% Potassium K_2O 4.86% Iron Fe_2O_3 4.16% Sodium Na_2O 0.89% Magnesium MgO 0.89% Titanium TiO_2 0.64% Barium BaO 0.24% Manganese MnO 0.17% Sulfur SO_3 0.11% Strontium SrO 0.0954% Chlorine Cl 0.073% Zirconium ZrO_2 0.069% Copper Cu 0.05% Rubidium Rb_2O 0.037% Zinc ZnO 0.023% Yttrium Y_2O_3 0.019% Carbon CO_2 0.012%

1. Physical Properties: Appearance: Dry, White to off White
2. Specific Gravity; 1.5 – 1.7
3. Odor: Odorless Ph: 7
4. CEC; 2.65 – 2.8 meq/g
5. Melting Point; 1800 degrees F
6. Solubility in Water 0
7. Moisture content; 5% Mohs Hardness 3.5 – 4.0

General Precautions

Avoid breathing dust, use adequate ventilation, avoid eye contact, use safety glasses, gloves, and dust respirator.

Made in USA.

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