

SPECIFICATION SHEET

TTII COOL-LITE™ ZEOLITE



Specifications for Clinoptilolite Zeolite

- Total Surface Area < 800 m²/g
 - Specific Surface Area 40 m²/g
 - Average Clinoptilolite Content 87% (+/- 5%)
 - Specific Gravity 2.42
 - Ph 7.29
 - Bulk Density ~ 52 lb/ft³ (+/- 2 lb) depending on screening size
 - Odorless
 - Off white in color
- | US Standard Sieve | Inches | Millimeters |
|-------------------|-----------------------|-------------------------|
| • 14 - 40 (fine) | .0555" down to .0164" | 1.18 mm down to .416 mm |
| • 7 - 14 (med) | .11" down to .0555" | 2.8 mm down to 1.18 mm |

Elemental Breakdown

Ida-Ore Zeolite Mining sources its Clinoptilolite Zeolite from an area called the Sheaville deposit along the Idaho and Oregon border. The tests that have been done on this deposit have all shown numbers close to these. Tests can vary slightly from different sample sites.



Element	Formula	Percentage
Silica Oxide	SiO ₂	71.5%
Aluminum Oxide	Al ₂ O ₃	11.3%
Potassium Oxide	K ₂ O	4.55%
Ferric Oxide	Fe ₂ O ₃	2.05%
Sodium Oxide Na ₂ O		1.24%
Calcium Oxide CaO		1.22%
Titanium Oxide	TiO ₂	0.27%
Magnesium Oxide	MgO	0.17
Barium Oxide BaO		0.15%

Analysis performed by The Mineral Lab, Inc.

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Elements most important for CEC of 147-250 meq/100 g

Element	Percentage
Potassium Oxide	4.55%
Sodium Oxide	1.24%
Calcium Oxide	1.22%
Magnesium Oxide	0.17%

Selectivity

Compounds: $\text{Cs}^+ > \text{NH}_4^+ > \text{Pb}^{2+} > \text{K}^+ > \text{Na}^+ > \text{Ca}^{2+} > \text{Mg}^{2+} > \text{Cu}^{2+} > \text{Zn}^{2+}$

Gases: Co, CO_2 , SO_2 , H_2S , NH_3 , HCHO, Ar, O_2 , N_2 , H_2O , He, H_2 , Kr, Xe, CH_2OH , freon

Major Exchangeable: Rb, Li, K, Cs, NH_4 , Na, Ca, Ag, Cd, Pb, Zn, Ba, Sr, Cu, Hg, Mg, Fe, Co, Al, Cr