

# TTII COOL-LITE Zeolite

## SPECIFICATION SHEET

### Specifications for Clinoptilolite Zeolite

- Total Surface Area < 800 m<sup>2</sup>/g
- Specific Surface Area 40 m<sup>2</sup>/g
- Average Clinoptilolite Content 87% (+/- 5%)
- Specific Gravity 2.42
- Ph 7.29
- Bulk Density ~ 52 lb/ft<sup>3</sup> (+/- 2 lb) depending on screening size
- Odorless
- Off white in color

US Standard Sieve	Ida Ore Terminology	Inches	Millimeters
• 14 - 40	Fine	.0555" down to .0164"	1.18 mm down to .416 mm
• 7 - 14	Medium	.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 <sub>2</sub>	71.5%
Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	11.3%
Potassium Oxide	K <sub>2</sub> O	4.55%
Ferric Oxide	Fe <sub>2</sub> O <sub>3</sub>	2.05%
Sodium Oxide	Na <sub>2</sub> O	1.24%
Calcium Oxide	CaO	1.22%
Titanium Oxide	TiO <sub>2</sub>	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

<b>Compounds:</b>	$Cs^+ > NH_4^+ > Pb^{2+} > K^+ > Na^+ > Ca^{2+} > Mg^{2+} > Cu^{2+} > Zn^{2+}$
<b>Gases:</b>	Co, Co <sub>2</sub> , SO <sub>2</sub> , H <sub>2</sub> S, NH <sub>3</sub> , HcHo, Ar, O <sub>2</sub> , N <sub>2</sub> , H <sub>2</sub> O, He, H <sub>2</sub> , Kr, Xe, CH <sub>2</sub> OH, freon
<b>Major Exchangeable:</b>	Rb, Li, K, Cs, NH <sub>4</sub> , Na, Ca, Ag, Cd, Pb, Zn, Ba, Sr, Cu, Hg, Mg, Fe, Co, Al, Cr

