

## PRODUCT DATA SHEET

### AZLB-Ca Bowie Chabazite

Hydrous Calcium Sodium Aluminosilicate, Natural Herschelite - Calcium/Sodium Chabazite

### Zeolite Powder and Granules

#### TYPICAL PROPERTIES

Form	Granules & Powders
Color	Yellowish / Tan (dry brightness 40)
Ring Members	8
Crystal Size	Less than 1 micron
Crystallinity	+90%
Density	1.73 g/cm <sup>3</sup>
Pore Size	4.1 by 3.7 Angstroms
Effective Pore Diameter	4.3 Angstroms
Cavity Size	11.0 by 6.6 Angstroms
Total Pore Volume	.468 cm <sup>3</sup> /g
Surface Area	460 m <sup>2</sup> /g
Crystal Void Volume	.47 cm <sup>3</sup> /cm <sup>3</sup>
Packing Density	Approx. (40 - 44 lbs/ft <sup>3</sup> )
SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Ratio	Approx. 4:1
MOH's Hardness	4 - 5
Moisture as Packaged	Less than 20% by Weight
pH of 1% Dispersion	8.5
Stability	pH of 3 through 12
Ion Exchange Capacity	2.50 meq/g
Sorption Capacity	>15 wt. % H <sub>2</sub> O at 10% RH

**CONTACT INFO**

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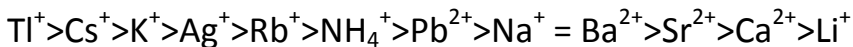
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**TYPICAL CHEMICAL ANALYSIS (Anhydrous Basis)**

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	Dominant Cation
69.5	16.6	4.33	4.49	0.89	2.4	1.32	.47	Ca

**EXCHANGE SELECTIVITIES**



**EXCHANGE OF HEAVY METAL IONS**

Weight Percent of Heavy Metals Retained in Anhydrous CABSORB after Ion Exchange from a .10 mg/ml solution: AgNO<sub>3</sub>, Pb(NO<sub>3</sub>)<sub>2</sub>, CoSO<sub>4</sub> and a 0.025 mg/ml solution of CuSO<sub>4</sub> at the Initial pH Indicated for each Solution

<u>Ag</u>		<u>Pb</u>		<u>Cu</u>		<u>Co</u>	
pH	Wt%	pH	Wt%	pH	Wt%	pH	Wt%
5.30	21.85	3.80	15.27	3.43	3.17	2.91	2.82

**RELATED MATERIALS**

- |                       |                  |
|-----------------------|------------------|
| Linde AW 500          | Sapo 34          |
| Linde Ion Sieve IE 95 | TSM 300          |
| Linde Ion Sieve IE 96 | 2 K – 14         |
| Linde D               | 2 YT – 6         |
| Linde R               | Acadialite       |
| LZ 218                | Haydenite        |
| MAPO 44               | Seebachite       |
| MAPO 47               | Willhendersonite |
| Herschelite           |                  |

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