

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 ³
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 ³ /g
Surface Area	460 m ² /g
Crystal Void Volume	.47 cm ³ /cm ³
Packing Density	Approx. (40 - 44 lbs/ft ³)
SiO ₂ /Al ₂ O ₃ 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 ₂ O at 10% RH

CONTACT INFO

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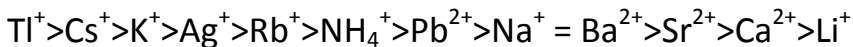
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TYPICAL CHEMICAL ANALYSIS (Anhydrous Basis)

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	TiO ₂	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: AgNO₃, Pb(NO₃)₂, CoSO₄ and a 0.025 mg/ml solution of CuSO₄ 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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