st. cloud™ zeolite

CONTACT INFO
Inquiries/Sales: (203) 364-0600
Email: info@stcloudmining.com

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_2O_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_2O at 10% RH

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TYPICAL CHEMICAL ANALYSIS (Anhydrous Basis)

SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	Na_2O	K_2O	TiO_2	Dominant Cation
69.5	16.6	4.33	4.49	0.89	2.4	1.32	.47	Ca

EXCHANGE SELECTIVITIES

$Tl^+ > Cs^+ > K^+ > Ag^+ > Rb^+ > NH_4^+ > Pb^{2+} > Na^+ = Ba^{2+} > Sr^{2+} > Ca^{2+} > Li^+$

EXCHANGE OF HEAVY METAL IONS

Weight Percent of Heavy Metals Retained in Anhydrous CABSORB after Ion Exchange from a .10 mg/ml solution: $AgNo_3$, $Pb(NO_3)_2$, $CoSO_4$ and a 0.025 mg/ml solution of $CuSO_4$ at the Initial pH Indicated for each Solution

Aq		Pb		Cu		Co	
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
Linde Ion Sieve IE 95
Linde Ion Sieve IE 96
Linde D
Linde R
LZ 218
MAPO 44
MAPO 47
Herschelite
Sapo 34
TSM 300
2 K – 14
2 YT – 6
Acadialite
Haydenite
Seebachite
Willhendersonite