



9241 7th Ave, Hesperia, CA Toll Free – 888-926-4785 info@ZeoFill.com

PRODUCT DATA SHEET

ZeoFill High Purity Clinoptilolite zeolite - Produced at Sandy Valley, NV 89019

Hydrous Sodium Aluminosilicate 100% Natural Clinoptilolite

TYPICAL PROPERTIES

General Chemical Formula	Na ₆ [Al ₆ Si ₃₀ O ₇₂] ₂₄ H ₂ O
Clinoptilolite Content	97%+
Cation Exchange Capacity (CEC)	1.6 – 2.0 meg/g
Form	Granules and powders
Shape	Angular
Color	Beige / Gray
Pore Diameter	4.0 – 7.0 angstroms
Specific Gravity	1.89
Specific Surface Area	40m ² /g
Bulk Density	45 - 54 lbs/ft ³
pH stability	3.0 – 10.00
Hardness	4.0 - 5.0 Mohs
Swelling Index	Nil

TYPICAL CHEMICAL ANALYSIS – CHEMISTRY OF ZEOFILL

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	MnO	TiO ₂
66.7%	11.48%	0.9%	1.33%	0.27%	3.96%	3.42%	0.025%	0.13%

MAJOR EXCHANGEABLE CATIONS

Rb ⁺	Na ⁺	Ba ⁺²	Mg ⁺²	Li ⁺	Ag ⁺	Sr ⁺²	Fe ⁺³	K ⁺	Cd ⁺²
Cu ⁺²	Co ⁺³	Cs ⁺	Pb ⁺²	Ca ⁺²	Al ⁺³	NH ⁺⁴	Zn ⁺²	Hg ⁺²	Cr ⁺³

KMI Zeolite (ZeoFill) Heavy Metal Data : Testing by ATS C240787-2 : EN 71-3 2013 Safety of Toys - Migration of certain 19 elements



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Element	Al	Sb	As	Ba	B	Cd	Cr+3	Cr+6	Co	Cu	Pb	Mn	Hg	Ni	Se	Sr	Sn	Zn	Organic Sn	
Limits Category III mg/kg (ppm)	70000	560	47	18750	15000	17	460	0.2	130	7700	160	15000	94	930	460	56000	180000	46000	12	
Description of Samples																				
KMI 12x20 mesh mg/kg (ppm)	360	1	2	4	2	<1	<0.1	<0.1	<1	<1	<1		9	<1	<1	4	3	6	4	6

Testing performed by :
 Applied Technical Services Inc.
 1049 Triad Court, Marietta Georgia 30062
 770-423-1400 fax 770-424-6415



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CERTIFICATIONS / DESIGNATIONS

Organic Materials Review Institute – ZeoFill certificate #ZEO-3722

CAS Registration : 12173-10-3 Clinoptilolite Zeolite

TSCA (USA – Toxic Substance Control Act) : No components listed.

Water Quality Association Gold Certified Supplier.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986 : There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

U.S. Food and Drug Administration (USFDA), Federal Code, Title 21 : GRAS (Generally Recognized as Safe) approved under 21 CFR Part 182.2729 for use up to 2% in animal feed in according with good management practice. Zeolites are exempted from a tolerance as a solid diluents or carrier when used in accordance with good agricultural practice. (40 CFR, Part 180.1001).

Canadian Feed Inspection Agency Registration : #991082 – KMI Freeflow

EN-71-3 Safety of Toys Part 3 – Migration of Certain Elements Results – **PASS**

*Information contained herein is, to the best of our knowledge, correct. The data outlined and the statements made are intended only as a source of information.