

pure clay

Green Desert Clay Analysis

ICP-Mass Spectrometry Analysis by ALS Chemex - Certification # RE21247279

Clay Mineralogy done via X-Ray Diffraction / Base Metals via 4-acid Digestion

Lot # 092101B

Chemical Composition		Percentage				
Silica Dioxide:	SiO ₂	43.5				
Magnesium Oxide:	MgO	11.85				
Calcium Oxide:	CaO	11		Physical Properties (Typical)		
Aluminum Oxide:	Al ₂ O ₃	6.43		350 Mesh	200 Mesh	50 Mesh
Potassium Oxide:	K ₂ O	3.22	Specific Gravity	2.6	2.6	2.6
Ferric Oxide:	Fe ₂ O ₃	2.27	Apparent Density	31	47	60
Sodium Oxide:	Na ₂ O	1.47	Tapped Density	62	73	83
Titanium Oxide:	TiO ₂	0.24	Dry Brightness	67	58	51
Manganese Oxide:	MnO	0.06	pH Value	9.7	9.7	9.7
Barium Oxide:	BaO	0.03		Sieve Analysis (Typical %)		
				350 Mesh	200 Mesh	50 Mesh
Total Carbon:	C	2.32	+50 Mesh	44	23	nil
Total Sulphur	S	0.19	+200 Mesh	24	7	nil
Loss On Ignition:	LOI	19.6	+350 Mesh	nil	nil	nil

Base metals done by 4-acid dig.	
Metal	PPM
Silver (Ag):	<0.5
Arsenic (As):	16.2
Cadmium (Cd):	<0.5
Cobalt (Co):	7
Copper (Cu):	14
Molybdenum (Mo):	<1
Nickel (Ni):	13
Lead (Pb):	19
Zinc (Zn):	64
Total	133.2

In addition, the clay mineral contains 572.943 PPM trace mineral content.

This clay, as with all bentonites, is classified as “Generally Regarded as Safe” by the United States Food and Drug Administration. However, these statements have not been evaluated by the Food and Drug Administration, and this product is not intended to diagnose, treat, cure or prevent any disease.

Trace Mineral Analysis ICP-MS

Trace Mineral	PPM
Silver (Ag):	<0.5
Cerium (Ce):	41.5
Cobalt (Co):	7
Cadmium (Cd):	<0.5
Chromium (Cr):	20
Caesium (Cs):	9.54
Copper (Cu):	14
Dysprosium (Dy):	2.39
Erbium (Er):	1.56
Gallium (Ga):	10
Gadolinium (Gd):	2.36
Hafnium (Hf):	2.5
Holmium (Ho):	0.52
Lanthanum (La):	19
Lutetium (Lu):	0.27
Molybdenum (Mo):	<1
Niobium (Nb):	10.4
Neodymium (Nd):	14.7
Nickel (Ni):	13
Lead (Pb):	19
Praseodymium (Pr):	4.26

Trace Mineral	PPM
Rubidium (Rb):	111.5
Samarium (Sm):	2.86
Tin (Sn):	1
Tantalum (Ta):	0.7
Terbium (Tb):	0.4
Thorium (Th):	9.19
Thallium (Tl):	0.54
Thulium (Tm):	0.25
Uranium (U):	16.25
Vanadium (V):	48
Tungsten (W):	1
Yttrium (Y):	14.5
Erbium (Yb):	1.67
Zinc (Zn):	64
Zirconium (Zr):	92
Arsenic (As):	16.2
Bismuth (Bi):	0.13
Mercury (Hg):	0.013
Antimony (Sb):	0.73
Selenium (Se):	<0.2
Tellurium (Te):	0.01
Total PPM	572.94