

VITIBEN[®] Bentonite

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 Category: Product Data Sheet

TYPICAL PHYSICAL PROPERTIES*

SCREEN ANALYSIS	TYPICAL	SPECIFICATION
Dry Screen, percent plus 16 mesh	1.0	5 max
Dry Screen, percent plus 40 mesh	91.0	
Dry Screen, percent minus 70 mesh	2.0	15 max
Dry Screen, percent minus 200 mesh	1.0	5 max

PHYSICAL PROPERTIES

Moisture content, percent	9	12 max
Swell Index (ml)	28.0	
pH, 6% suspension	9.6	
Specific Gravity	2.7	
Bulk Density (lbs per ft ³) uncompactd	60	
Bulk Density (lbs per ft ³) compactd	67	

* The typical physical values listed are not to be construed as rigid specifications.

The typical physical and chemical values listed are not to be construed as rigid specifications. The chemical analysis of a **typical** Wyoming bentonite is reported on the oxide basis for the major elements in bentonite. Metals listed in the chemical analysis are complexed in the mineral. They do not necessarily exist as free oxides.

MINERAL COMPOSITION

92%	Sodium Montmorillonite
4%	Quartz
3%	Feldspar (albite)
1%	Biotite
100%	TOTAL

CHEMICAL ANALYSIS

SiO ₂	58.6%	Na ₂ O	2.0%
Al ₂ O ₃	19.6%	K ₂ O	0.4%
Fe ₂ O ₃	3.7%	CaO	1.2%
MgO	2.2%	Water	9.8%

EXTRACTABLE TRACE METALS** mg/l

Arsenic (As) <0.5	Chromium (Cr) <0.5	Selenium (Se) <0.8
Barium (Ba) <2.0	Lead (Pb) <0.5	Silver (Ag) <0.05
Cadmium (Cd) <0.1	Mercury (Hg) <0.001	

** EPA SW-846, 40 CFR Chapter 1, Appendix II to Part 261-TCLP Test Method 1311

VITIBEN[®] Bentonite is inventoried as a processing aid for the wine and beverage clarification industries in the Codex Alimentarius International Code of Standards (Section 5, Food Additives, Volume 1A-1999).

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