

TECHNICAL INFORMATION

BIG HORN[®] 12

Description: BIG HORN® 12 is a specially sized pure sodium bentonite for use in binding, sealing, absorbing

and general applications.

Typical Characteristics: Bulk Density (lbs/ft³): 63 ± 3

Color:

Cation Exchange Capacity

(CEC meq(100gm):

Light Grey to Tan

70 - 90

Free Swell (cc/2gm): 20 ± 4 Moisture Content (%): 6 - 10

pH: 9.1 ± 0.4

Resistivity (ohm-meters): 2.40

Specific Gravity: 2.55 ± 0.1 **Thermal Conductivity** Dry -0.20

(Btu/hr-ft- 0 F): Saturated – 0.50

Wet Screen Analysis 3.0 ± 0.5

(% Residue on #200 Sieve):

Typical Sieve Analysis:

Sieve Size	% Retained	
#8	0.6	
#20	34.78	
#100	49.64	
#200	9.66	
Pan	5.32	

Typical Chemical Analysis:	%
SiO ₂	60.34
Al ₂ O ₃	19.28
Fe ₂ O ₃	3.48
Na ₂ O	2.34
TiO ₂	.22
CaO	.38
MgO	1.67
K ₂ O	.10
H ₂ O	7.75
Other	.07
L.O.I.	4.37

E.P.A Toxicity Analysis:	E.P.A Standard (ppm)	Typical Analysis (ppm)
Arsenic	5.0	<0.1
Barium	100.0	0.5
Cadmium	1.0	<0.05
Chromium	5.0	<0.1
Lead	5.0	<0.1
Mercury	0.2	<0.02
Selenium	1.0	<0.05
Silver	5.0	<0.1

Rev 3/17

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