

TECHNICAL INFORMATION

BIG HORN[®] 40

Description: BIG HORN® 40 is a specially sized pure sodium bentonite for use in binding, sealing, absorbing

and general applications.

Typical Characteristics: Bulk Density (lbs/ft³): 68 ± 3

Cation Exchange Capacity

(CEC meq(100gm):

Light Grey to Tan

70 - 90

Color:

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-⁰F): Saturated - 0.50 3.0 ± 0.5

Wet Screen Analysis

(Residue on #200 Sieve):

Typical Sieve Analysis:

Sieve Size	% Retained	
#20	0.12	
#40	22.13	
#100	53.35	
#200	16.32	
Pan	8.08	

Typical Chemical Analysis:	%
SiO ₂	60.34
Al ₂ O ₃	19.28
Fe₂O₃	3.48
Na ₂ O	2.34
TiO ₂	.22
CaO	.38
MgO	1.67
K₂O	.10
H₂O	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

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