

TECHNICAL INFORMATION SHEET

CHARLES B. CHRYSTAL CO, INC.

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founded 1897

Industrial
minerals merchants
for over
100 years

SUBJECT: **BIG HORN® 40/100**

Specially sized pure sodium bentonite for Binding and Absorbents.

COLOR: Light Gray

TYPICAL CHEMICAL ANALYSIS:	<u>%</u>
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
Other	.07
H ₂ O	7.75
L.O.I.	4.37

E.P. TOXICITY ANALYSIS:

	E.P.A. Standard <u>ppm</u>	Typical Analysis <u>ppm</u>
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

SPECIFIC GRAVITY: 2.5 ± 0.1

BULK DENSITY (lbs/ft³): 64 ± 2

SPECIFICATIONS:

95% Passing 30 Mesh guaranteed
8% Maximum Passing 200 Mesh

TYPICAL PARTICLE SIZE:

<u>U.S. Std. Sieve Size</u>	<u>% Passing</u>
20 mesh	99.9
40 mesh	83.2
50 mesh	55.7
60 mesh	43.47
100 mesh	21.68
-200 mesh	8.1

TYPICAL CHARACTERISTICS:

Moisture Content - %	6 - 9
pH	9.1 ± 0.4
Cation Exchange Capacity (CEC meq(100 gm))	70-90
swell	21 +/- 3

USES:

Absorbents sealant, plasticising