



FREDERICK SALES, LLC

Products for Agri-Business

PHONE: 800-947-8752 • FAX: 940-497-6605 • www.fredericksales.com

SUBJECT: BIG HORN® FS 16

Specially sized pure sodium bentonite for animal feed binders 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:

	<u>E.P.A. Standard</u> <u>ppm</u>	<u>Typical Analysis</u> <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: 2.55 ± 0.1

BULK DENSITY (lbs/ft³): 65 ± 2

SPECIFICATIONS:

97% Passing 8 Mesh
5% Maximum Passing 50 Mesh

TYPICAL PARTICLE SIZE:

<u>U.S. Std. Sieve Size</u>	<u>% Retained</u>
8 mesh	0.5 ± 0.3
10 mesh	3 ± 2
16 mesh	34 ± 5
20 mesh	24 ± 4
40 mesh	32 ± 4
50 mesh	2 ± 1
60 mesh	1 ± .5

TYPICAL CHARACTERISTICS:

Wet Screen Analysis	
Residue on U.S. Sieve No. 200	3.0 ± 0.5
pH	9.1 ± 0.4
Moisture Content - %	6-9
Cation Exchange Capacity (meq/100 gm)	70-90
Swell (cc/2 gm)	20 ± 4

USES:

Binder in animal feeds, absorbent for aqueous solutions.