



**FREDERICK SALES, LLC**

*Products for Agri-Business*

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**SUBJECT: BIG HORN® FS 200 BENTONITE**

Specially sized pure sodium bentonite for animal feed and other industry applications.

**COLOR:** Light Gray

<b>TYPICAL CHEMICAL ANALYSIS:</b>	<u>%</u>
SiO <sub>2</sub>	60.34
Al <sub>2</sub> O <sub>3</sub>	19.28
Fe <sub>2</sub> O <sub>3</sub>	3.48
Na <sub>2</sub> O	2.34
TiO <sub>2</sub>	.22
CaO	.38
MgO	1.67
K <sub>2</sub> O	.10
Other	.07
H <sub>2</sub> O	7.75
L.O.I.	4.37

**E.P. TOXICITY ANALYSIS:**

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

**SURFACE AREA (m<sup>2</sup>/gm):**

External Surface	82
All Surfaces	800

**BULK DENSITY (lbs/ft<sup>3</sup>):** 52 ± 3

**TYPICAL PARTICLE SIZE:**

<u>U.S. Std. Sieve Size</u>	<u>% Passing</u>
100 mesh (15m)	96
200 mesh (75m)	80
325 mesh (45m)	52

**TYPICAL CHARACTERISTICS:**

Wet Screen Analysis Residue on U.S. Sieve No. 200	3.0 ± 0.5
Ph	9.1 ± 0.4
Moisture Content - %	6-10
Cation Exchange Capacity (CEC meq(100 gm))	70-90
Swell (cc/2 gm)	20 ± 3

**USES:**

Binder for animal feed pelletizing.  
Free choice feed additive for direct feeding.  
Industrial binding, sealing and gelling.