



**FREDERICK SALES, LLC**

*Products for Agri-Business*

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**SUBJECT: BIG HORN® FS 34**

Specially sized pure sodium bentonite for absorbents and sealants.

**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.</u> <u>Standard</u> <u>ppm</u>	<u>Typical</u> <u>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/ft<sup>3</sup>):** 64 ± 2

**SPECIFICATIONS:**

95% Passing 14 Mesh

**TYPICAL PARTICLE SIZE:**

<u>U.S. Std. Sieve Size</u>	<u>% Retained</u>
20 mesh	31.5
40 mesh	38.3
100 mesh	28.1
-100 mesh	2.1

**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	70-90
(CEC meq(100 gm)	
Swell (cc/2 gm)	18 ± 2

**USES:**

Absorbing of aqueous solutions. Binding plasticizing, sealants.