



**SPECIFICATION SHEET**  
**SODIUM BISULFATE (Dry Acid)**

**PROPERTIES:**

Common Names	Sodium Bisulfate (Dry Acid), Sodium Hydrogen Sulfate, Sodium Acid Sulfate, Nitre Cake
Physical Form	Dry (Anhydrous), crystalline solid, spherical shape (bead) approx 0.75mm diameter (1/32in.)
Solubility	Material is readily soluble in water
pH of a 5% Aqueous Solution	1.0 pH

**TYPICAL ANALYSIS:**

	<b>Typical</b>	<b>Range</b>
Assay, as NaHSO <sub>4</sub> Wt %	93.2	90.5 to 95.5
Sodium Sulfate as Na <sub>2</sub> SO <sub>4</sub> Wt %	6.5	9.3 to 4.0
Moisture as H <sub>2</sub> O Wt %	0.2	0.2 to 0.5
Iron as Fe, Wt%	0.002	0.001 to 0.075
Free Acid, as H <sub>2</sub> SO <sub>4</sub>	Nil	Nil
Acidity as H <sub>2</sub> SO <sub>4</sub> , Wt%	38.1	37.0 to 39.0
Colour	Off-white	Off-white (light yellow)
Bulk Density, Loose Particle-Size	82 to 84lbs./cu.ft	80 to 85lbs./cu.ft

1. Non-cumulative

<u>USS Screen</u>	<u>Opening Microns</u>	<u>Typical</u>	<u>Range</u>
On 10	On 2000,	Wt. % 0.0	0.0 to 0.1
Through 10 on 20	Through 2000 on 841	Wt. % 39.0	30 to 80
Through 20 on 40	Through 841 on 420	Wt. % 55.0	10 to 60
Through 40 on 60	Through 420 on 250	Wt. % 5.0	1 to 9
Through 60 on 100	Through 250 on 149	Wt. % 0.8	0.2 to 1
Through 100	Through 149	Wt. % 0.2	0 to 0.3

2. Cumulative

<u>USS Screen</u>	<u>Opening Microns</u>	<u>Typical</u>	<u>Range</u>
On 10	on 2000	Wt. % 0.0	0.0 to 0.1
On 20	on 841	Wt. % 39.0	30 to 80
On 40	on 420	Wt. % 94.0	85 to 95.8
On 60	on 250	Wt. % 99.0	90 to 99.8
On 100	on 149	Wt. % 99.8	98.7 to 100
Through 100	Through 149	Wt. % 0.2	0 to 0.3