



Technical Specification

Sodium Bicarbonate Feed Grade

Revision Date: 03/16/2015

CHEMICAL NAME: Sodium Bicarbonate
FORMULA: NaHCO₃
MOLECULAR WEIGHT: 84.01
CAS NAME: Carbonic acid monosodium salt
CAS NUMBER: 144-55-8
DESCRIPTION: White, crystalline powder
GRADE: Feed Grade

PROPERTIES:	SCREEN ANALYSIS:	Cumulative Percent Retained (Typical)		
		U. S. Std. Sieve No.	Minimum	Maximum
		+ 100	0	80
		+ 200	20	100
		+ 325	50	100

BULK DENSITY: poured – Typical range: 60 to 75 lbs. / ft³

THEORETICAL PROPERTIES: The following properties are provided for convenience and reference only. These properties are not normally tested in the commercial product and no representation is made relative to the commercial product.

THERMAL DECOMPOSITION: Decomposes (without melting) into Na₂CO₃, H₂O, and CO₂
ALKALI EQUIVALENT: 1 lb. NaHCO₃ = 0.369 lb. Na₂O
CARBON DIOXIDE EQUIVALENT: 1 lb. NaHCO₃ = 0.524 lb. CO₂
SPECIFIC GRAVITY: 2.16 g / cm³
SPECIFIC HEAT @ 25 °C: 20.94 cal / deg mol
SOLUBILITY IN WATER @ 60 °C: 16.4 g / 100 g H₂O
SOLUBILITY IN OTHER SOLVENTS: Insoluble in alcohol
HEAT OF FORMATION: - 227.25 K cal / mol
HEAT OF SOLUTION: 3.81 K cal / mol
SODIUM (Na): 27.1 % Minimum
TASTE: Slightly alkaline

PACKAGING:
Multi-wall Paper Bags: 50 lb and 25 kg
Super sacks: 2000 lb, 2450 lb, and 1000 kg
Bulk Loads

SHELF LIFE: 2 years from manufacturing date

HANDLING:
Information concerning the handling and use of this product is provided in a material data sheet (MSDS). This MSDS must be fully read and understood prior to any exposure, handling, or use

APPLICATIONS: Animal feed
RECOMMENDED DOSAGE: 1 KG/1 MT

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