Specification

Arm & Hammer™
Sodium Bicarbonate Sorbent Extra Fine

Reviewed: Feb. 1, 2020	Test Method	
Assay – dry basis	USP	Not less than 99.0% $NaHCO_3$

Granulation

		Ro-Tap Cumulative % Retained	
Sieve Size (USS)	Microns	Minimum	Maximum
100	149	0	1
200	74	0	20
325 Alpine	44	10	50

General Properties (Not Specifications)

Empirical Formula	$NaHCO_3$
CAS Number	144-55-8
Other Names	Bicarbonate of Soda Sodium Hydrogen Carbonate Baking Soda
Chemical Abstract Name	Carbonic acid monosodium salt
E Number	E-500(ii)
Appearance	White crystalline powder
Taste	Slightly alkaline
Molecular Weight	84.01
Thermal Decomposition	Decomposes without melting into Na_2CO_3, H_2O and CO_2.
Crystal Density	137.3 lb /ft^3, 2.2 g / cc
Bulk Density	52-56 lb/ft^3, 0.833 – 0.897 g/cc
BTU / lb at 72°F	0.249
Solubility in water at 77°F	Approximately 9.5%
Solubility in Alcohol	Insoluble
Alkali Equivalent	1 lb $NaHCO_3$ = 0.369 lb Na_2O
Acid Equivalent	1 lb $NaHCO_3$ = 0.435 lb HCl
Carbon Dioxide Equivalent	1 lb $NaHCO_3$ = 0.524 lb CO_2
pH 1% aqueous soln at 77°F	Approximately 8.3.