

# SPECIFICATIONS

## AMMONIUM BICARBONATE - Treated

White, crystalline powder designed to meet the needs of the food and other industries for free flowing Food Grade Ammonium Bicarbonate. It is comprised of Ammonium Bicarbonate F.C.C., and a small amount of Magnesium Carbonate. Ammonium Bicarbonate decomposes on heating to ammonia, carbon dioxide and water vapor.

### Typical Granulation

Sieve Size (USS)	Microns	Ro-Tap Cumulative % Retained
25	710	1
70	212	55
100	149	70

### General Properties (Not specifications)

<b>Empirical Formula</b>	NH <sub>4</sub> HCO <sub>3</sub>
<b>Flow Agent</b>	MgCO <sub>3</sub> 1.25% max.
<b>CAS Number</b>	1066-33-7, 1309-48-4
<b>Chemical Abstract Name</b>	Ammonium Hydrogen Carbonate
<b>Appearance</b>	White crystalline powder
<b>Molecular Weight</b>	79.05
<b>Thermal Decomposition</b>	Decomposes without melting into NH <sub>3</sub> , H <sub>2</sub> O and CO <sub>2</sub> above 59°C.
<b>Bulk Density</b>	51 lb / ft <sup>3</sup> , 0.820 g / cc
<b>Solubility in water</b>	17.8% wt./wt at 20°C
<b>NH<sub>3</sub> Equivalent</b>	21% minimum wt./wt.
<b>CO<sub>2</sub> Equivalent</b>	55% minimum wt./wt.
<b>pH 1% aqueous soln at 77°F</b>	Approximately 7.8

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