



TECHNICAL DATA SHEET

Product Name: Sodium Bicarbonate

Synonyms: Baking Soda, Sodium Hydrogen Carbonate

Chemical Formula: NaHCO₃

CAS Number: 144-55-8

Molecular Weight: 84.01 g/mol

Appearance: White crystalline powder or fine granules

1. Typical Specifications

Parameter	Food Grade	Feed Grade	Industrial Grade
Purity (as NaHCO ₃ , dry basis)	≥99.0%	≥98.5%	≥98.0%
pH (1% solution)	8.5±0.2	8.4–8.6	8.3–8.6
Loss on Drying	≤0.25%	≤0.30%	≤0.40%
Arsenic (As)	≤1ppm	≤2ppm	≤5ppm
Heavy Metals (as Pb)	≤5ppm	≤10ppm	≤20ppm
Chloride (as NaCl)	≤0.4%	≤0.5%	≤0.6%
Ammonium (NH ₄ ⁺)	Absent	Absent	≤0.03%
Appearance	White powder / granule		

2. Applications

➤ **Food Industry:**

Used as a **leavening agent** in baking, a pH buffer, and an ingredient in effervescent beverages.

➤ **Feed Additive:**

Balances acid-base in ruminants, improves digestion, and prevents acidosis in dairy cows.

➤ **Industrial Uses:**

Fire extinguishers

Textile dyeing

Detergent formulation
Water treatment
Electroplating
Cleaning agent

3. Packaging

25kg PP/PE bags
50kg woven bags
1000kg jumbo bags
Custom packaging available upon request

4. Storage & Shelf Life

Store in a dry, ventilated area
Keep sealed to avoid moisture and contamination
Shelf Life: 24 months under proper storage conditions

5. Safety & Regulatory Information

Classification: Non-hazardous, non-flammable
Transport: Not regulated as dangerous goods
SDS: Available on request
Compliant with FCC / E500 / GB1886.2 / EU / USP standards (depending on grade)