

**PRODUCT  
SPECIFICATION**

**AMMONIUM HYDROGEN CARBONATE  
(AMMONIUM BICARBONATE) WITH ANTI-CAKING AGENT**

**premixture: ammonium hydrogen carbonate E 503(ii) with anticaking agent magnesium hydroxide carbonate E 504 (ii)**

Number of revisions: 19  
Date of last revision: 18.05.2023

Information:		
Main constituent		Neochim PLC code:12-02
<b>Chemical formula:</b> $\text{NH}_4\text{HCO}_3$	CAS №: 1066-33-7	
<b>Molecular weight:</b> 79.06	EO №: 213-911-5	
<b>Appearance:</b> fine white crystals with slight odour of ammonia		
<b>Solubility:</b> freely soluble in water; insoluble in ethanol		
<b>Use:</b> raising agent in food, formulation and repackaging of mixtures, raw material in chemical synthesis		

Specifications:		
Indices	Typical Values	Limit Values
Ammonium bicarbonate ( $\text{NH}_4\text{HCO}_3$ ) content, %	99.3 – 99,4	min. 99.0
Ammonia ( $\text{NH}_3$ ) content, %	21.3 – 21.4	min. 21.3
Non-volatile residue, (except anticaking agent), %	0.02	max. 0.05
Anticaking agent, %	0,4	max. 0.5
Sulfur compounds (such as sulphate ( $\text{SO}_4$ )), mg/kg	complies	max. 30
Chlorides, mg/kg	complies	max. 30
Iron (Fe) content, mg/kg	complies	max. 5
Lead (Pb) content, mg/kg	complies	max. 2
Arsenic (As) content, mg/kg	complies	max. 3
Mercury (Hg) content, mg/kg	complies	max. 1
Ethylene oxide (sum of ethylene oxide and 2 – chloro-ethanol / ethylene oxide + 0.55*2 chloro-ethanol /, expressed as ethylene oxide), mg/kg	complies	max.0.1
pH of 5% aqueous solution	7.7	7.5 to 8.5
Bulk density, g/l	approx. 900	-

**Packaging:**

- One – layer bags (polyethylene - LDPE) - 25 kg net

Date of issue: 10.12.1999

These data are based on our current knowledge, experience and technical equipment. They do not relieve customers of carrying out their own tests and experiments, due to the great diversity of possible effects in processing and application of our products. They do not imply any legally binding assurances of certain properties and applications. The recipients of our products ought to abide by the existing legislation and regulations as well as possible reserved rights.

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