TECHNICAL DATA SHEET

AMMONIUM BICARBONATE FFQ 035

PHYSICO-CHEMICAL CHARACTERISTICS

Formula	: NH_4HCO_3
Molecular weight	: 79.06
Synonyms	: Ammonium hydrogen carbonate.
Raw materials	: Ammonia (> 21.1% NH_3) and carbon dioxide (> 55.% CO_2).
Bulk density	: 0.85 kg/dm^3 approx.
pH (20°C, 5%)	: 8.0 approx.
Water solubility	: increases with the temperature according to the following table:

t °C	10	20	30	40	50	60
g NH_4HCO_3 /100 g soln	13.9	17.8	22.1	26.8	31.6	37.2

Notice : the product is a mixture of ammonium bicarbonate (E503ii) and anti-caking (E504)

QUALITATIVE CHARACTERISTICS

Appearance of the product	fine white crystalline powder	
Assay	% NH_4HCO_3	> 99.5
Magnesium carbonate	% $MgCO_3$	< 0.35
Non-volatile matter	%	< 0.35
Chloride	mg/kg as Cl	< 30
Sulphate	mg/kg as SO_4	< 30
Iron	mg/kg as Fe	< 3
Heavy metals	mg/kg as Pb	< 3
Arsenic	mg/kg as As	< 1
Lead	mg/kg as Pb	< 1
Cadmium	mg/kg as Cd	< 1
Mercury	mg/kg as Hg	< 0.1

Each single additive of the product complies specifications of: Regulation EU 231/2012 (food additives), FCC XII (2020)

The indicated values are intended as determined according to our standard analysis methods.

STANDARD PACKAGING

25 kg polyethylene bags
Various sizes bulk bags on pallets, shrinkwrapped

STORAGE

Store the product in the original container in a dry, cool and well-ventilated place away from direct heat or sunlight; store at temperature not exceeding 30°C.
If heated over 60°C it decomposes developping ammonia, carbon dioxide and water vapour.
Caking/lump formation can occur with this product; however, it does not deteriorate either chemically nor biologically.

MAIN USES

In food industry as additive (E503ii) working as chemical leavening/raising agent.
In chemical synthesis.
As a blowing agent to introduce voids and reduce densities.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

THIS TECHNICAL DATA SHEET IS IDENTIFIED AS ***ABC 035 1 (0121) E3***

ESSECO srl 28069 - San Martino Trecate (NO) - Italy - Tel. +39-0321-790.1 - Fax +39-0321-790.215 - chemsupport@esseco.it - www.esseco.com