

FEED GRADE REFINED SODIUM BICARBONATE - A

DESCRIPTION

White, opaque, monoclinic crystal or powder consisting of small or very small particles, which is light alkali. Main composition is Sodium Bicarbonate. After the production of feed grade sodium bicarbonate max. % 0,5 (w/w) magnesium stearate is added to improve flow characteristics **as processing aid**. Solution in water is slightly turbid and an oily layer can be seen on the surface of the solution. It doesn't contain foreign substances which can be seen by open eyes.

It is produced under the permission of Republic Turkey Ministry of Food, Agriculture and Livestock 16/09/2013 date and YK-TR-3300390 number.

STANDARD NO : It conforms to TS 12244

EINECS NO : 205-633-8

CAS NO : 144-55-8

FEED CATALOGUE NO : 11.4.2-Sodium Bicarbonate (NaHCO₃)

PRODUCTION CODE : UDK 661.833.623

CHEMICAL CHARACTERISTICS

	NORM	REFERENCE NORM
Sodium Bicarbonate, NaHCO ₃ (%)	99.30 min	TS 12244 (min. 99.20)
Sodium Carbonate, Na ₂ CO ₃ (%)	0.50 max	TS 12244 (max. 0.80)
Sodium, Na ⁺ (%)	27 min	TS 12244 (min. 27)
Ash Insoluble In HCl*	0	2013/68/EC (if > %10)
Chloride Ion, Cl ⁻ (ppm)	100 max	TS 12244 (max. 120)
Iron, Fe ⁺ (ppm)	6 max	TS 12244 (max. 7)
Sulfate, SO ₄ ⁼ (ppm)	100 max	TS 10379 (max. 500)
Subs. doesn't dissolve in water (ppm)**	200 max*	TS 10379 (max. 500)
pH (% 1 solution)	8.4 max	TS 12244 (max. 8.4)
Copper, Cu (ppm)	1 max	TS 10379 (max. 30)
Arsenic, As (ppm)	1 max	2003/100/EC (max. 2) / 2011/574/EC (max. 2) /2012/231/EC (max. 3)
Lead, Pb (ppm)	2 max	2003/100/EC (max. 5) / 2012/231/EC (max. 2)
Mercury, Hg (ppm)	0.1 max	2002/32/EC (max. 0.1)/2011/574/EC (max. 0.1)/2012/231/EC (max. 1)
Loss on drying (%)	0.25 max	2000/63/EC (max. 0.25) TS 12244 (max %4)
Amonium Components	App. Exp.	TS 3050 (app. exp.)/2008/84/EC (app. exp.)
Cadmium, Cd (ppm)	0.5 max.	2002/32/EC (max. 0.5) / 2011/574/EC (max. 2)
TS 12244	Turkish Standard Institution: Sodium Hydrogen Carbonate Standard- Acidity Regulator	
TS 10379	Turkish Standard Institution: Sodium Hydrogen Carbonate Standard	
2013/68/EC	Catalogue of Feed Material	
2011/574/EC	Annex I to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed	
2012/231/EC	laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008	

SPECIFICATION OF REFINED SODIUM BICARBONATE WITH ANTICAKING AGENT

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* No ash insoluble left as HCl is added due to acid-base reaction.

****Solution:** Due hydrophobic characteristic of **processing aid**, it is insoluble in water. As **processing aid** is insoluble the insoluble material for bicarbonate-K is related with the percentage of the **processing aid** used. On the other hand, Bicarbonate is soluble in water, not soluble in ethyl alcohol. Insoluble material indicated as ** is referred only to bicarbonate itself.

PHYSICAL CHARACTERISTICS

Substance Construction: Free flowing small particle.

Sieve Analysis: There exists trace amount of particles over 600 microns.

MICROBIOLOGICAL CHARACTERISTICS

<u>Name</u>	<u>Unit</u>	<u>Norm</u>
Enterobacteriaceae	Kob/gr	100 max
Yeast Mold	Kob/gr	1000 max
Salmonella	Kob/25gr	Does not exist

* Sieve analysis and microbiological characteristics arranged in the direction of customer requests.

PACKAGING

- Block base laminated PP bag in 25 or 50 kilograms.
- Fully closed hot sealed PE bag in 25 or 50 kilograms
- Shrink wrapped palettes of 1000 and 1250 kilograms, prepared from 25 or 50 kilograms.
- Optional: Kraft bag (3 set kraft + 1 set PE) in 25 kilograms
- In Laminated PP big-bag with 4 handles in 1000 and 1250 kilograms.

CONTROL

It is controlled according to TS 12244 and Soda Sanayii A.Ş. Soda Factory's "Control (Analysis) Instruction" which document number is SF-KYS-KL-45-02.

This product meets the requirements approved by the European Community to the extent of at least equivalent to those laid down in Regulation No 183/2005 of European Parliament and the Council of 12 January 2005 year on the requirements for feed hygiene.

Characteristics of products are valid under our controlled conditions. Warnings in MSDS should be taken into consideration.

USEAGE AREAS

It is used in feed industries as mineral source where it is used in solid mixtures. It is not used for curing purposes.