



DMC DELTA

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**PRESENTATION OF
PRODUCTS
2024**



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Background

Founded in 2022, DMC DELTA Consultancy AS, is an international chemical goods trading company with product portfolio including but not limited to Caustic Soda, Soda Ash and Sodium Bicarbonate. We provide comprehensive and high-level services in the commodity trade market with strong expertise in foreign trade. Our solutions for the commodity market include extensive, rapid and secure delivery of our products to our final end customers.

Main Product List



SODA ASH DENSE | LIGHT (GRADE)

Soda ash is used in the glass, chemical aluminum industries, iron and non-ferrous metallurgy, soap, fats and oils industry, textile, paper, chemical treatment of water processing production of detergents and etc.



CAUSTIC SODA FLAKE (FORM)

Used for pH regulation, for the production of biofuels from vegetable oils, for cleaning bottles (food industry), in the pulp and paper industry, for air drying, for alumina production, in the chemical industry (intermediate use), for resins recovery and water softening.



SODIUM BICARBONATE FOOD | FEED | TECH (GRADE)

Sodium bicarbonate is a versatile substance with many industrial uses. It is commonly used in cooking and baking. Moreover, it is a common ingredient in cleaning, detergent and degreasing products.

Technical Data Sheets of Our Products (TDS)

Na₂CO₃

SODA ASH

Technical properties:

<i>Parameter:</i>	<i>DENSE (First Grade)</i>	<i>LIGHT (Top Grade)</i>
Appearance:		
Mass fraction of sodium bicarbonate (NaCO ₃), %, minimum	99,4	99,4
Mass fraction of sodium carbonate (Na ₂ CO ₃) calculated as unignited product, %, minimum	98,7	98,9
Mass fraction of loss during ignition (at 270–300 °C), %, maximum	0,7	0,5
Mass fraction of chlorides calculated as NaCl, %, maximum	0,2 (0,15)*	0,4
Mass fraction of iron calculated as Fe ₂ O ₃ , %, maximum	0,003	0,003
Mass fraction of water insoluble substances, %, maximum	0,04	0,03
Mass fraction of sulfates calculated as Na ₂ SO ₄ , %, maximum	0,04	0,04
Bulk density, g/cm ³ , maximum	0,9	Not rated
Granulometric composition:		
Residue on the sieve with mesh No. 2K according to GOST 6613-86, %, maximum	5	Not rated
Passing a sieve with mesh No. 1.25K according to GOST 6613-86, %, maximum	Not rated	
Residue on the sieve with mesh No. 1K according to GOST 6613-86, %, maximum	Not rated	
Passing a sieve No. 01K according to GOST 6613-86, %, maximum	15	
Magnetic inclusions with a size more than 0.25 m Not rated	Not rated	

* has developed production of low chloride soda ash dense with chloride content not more than 0.15%

APPLICATION. Soda ash is used in the glass, chemical aluminum industries, iron and non-ferrous metallurgy, soap, fats and oils industry, food, textile, paper, oil and other industries, chemical treatment of water, production of plastic and synthetic resins, processing gold bearing and uranium ores, production of detergents and domestic use.

PACKING AND TRANSPORTATION. Soda ash is packaged in 25 kg polypropylene bags (light), 1000-1250 kg big bags (dense) and 700 kg big bags (light). The product is also transported in bulk by railway in soda containers and hoppers, and also soda trucks. Soda ash packaged in soft special containers is carried by railway in open cars and covered cars, and also by road transport. Packed in bags, it is carried by any type of transport protecting the product from moisture.

NaOH

CAUSTIC SODA FLAKES

№ CAS 1310-73-2
STO 00203312-017-2011



Technical properties:

Indicator description	Norm
Appearance	Flake mass of white color. Light dye is allowed
Mass fraction of sodium hydroxide, %, minimum	98,5
Mass fraction of sodium carbonate, %, maximum	0,8
Mass fraction of sodium chloride, %, maximum	0,05
Mass fraction of iron calculated as Fe ₂ O ₃ , %, maximum	0,004
Total mass fractions of iron and aluminum oxides, %, maximum	0,02
Mass fraction of silicic acid calculated as SiO ₂ , %, maximum	0,02
Mass fraction of sodium sulfate, %, maximum	0,03
Total mass fractions of calcium and magnesium calculated as Ca, %, maximum	0,01
Mass fraction of sodium hypochlorite, %, maximum	0,01
Total mass fractions of heavy metals settled by H ₂ S calculated as Pb, %, maximum	0,01
Mass fraction of mercury, %, maximum	0,0005

APPLICATION. The product is used in organic synthesis processes, petroleum products refining, textile industry in production of viscose silk and in bleaching fabrics, in paper and aniline industry, soap making, production of aluminum and sodium metal, soluble glass, alkaline accumulators, Trilon B.

SAFETY REQUIREMENTS. In terms of effect on organism, the product pertains to the 2 class of hazard.

CERTIFICATION. A Compliance Certificate and an Application Certificate of the product have been issued for the caustic soda flakes to be used in technologic processes of oil recovery and transport.

STATE REGISTRATION. The product has been registered in the Potentially Hazardous Chemical and Biological Substances Register of the RF.

PACKING AND TRANSPORTATION. Caustic soda flakes are transported by railway and motor transport. 25 kg, 50 kg polypropylene bags, special soft containers with a maximum mass of 1,000 kg, 60 kg polyethylene barrels (without the insert) are used for packaging the product. Transportation in 20 and 40-foot sea vans is possible for countries outside the CIS.

GUARANTEED SHELF LIFE. Guaranteed shelf life of the product is 1 year from the manufacture date.

NOTES. Rates of impurities are given calculated as 100% product. Indicator description in the paragraphs 6-12 guaranteed by the manufacturer and determined 1 time in 6 months.

PRODUCT SPECIFICATION

Sodium Bicarbonate. Food additive E500(ii)

12

Date of Issue

25.01.2022

1 of 2

CHEMICAL FORMULA:

NaHCO₃

CHEMICAL NAME (IUPAC name):

Sodium bicarbonate

Chemical Characteristics

No	Parameter	Unit	Value
1	Appearance, colour	Crystalline white powder or colorless crystals	
2	Smell	Without odor	
3	pH of Sodium Hydrogen Carbonate solution with mass fraction 1%	pH unit	8,0 to 8,6 incl
4	Carbonate test	Passes the tests	
5	Water insoluble test	Passes the tests	
6	Mass fraction of ammonium salts calculated as NH ₄ ⁺ , not more than	%	0,001
7	Mass fraction of Sodium Hydrogen Carbonate NaHCO ₃ not less than	%	99,3
8	Mass fraction of Sodium Carbonate, Na ₂ CO ₃ not more than	%	0,7
9	Mass fraction of Chlorides calculated as NaCl, not more than	%	0,04
10	Mass fraction of Iron (Fe), not more than	%	0,005
11	Mass fraction of Calcium (Ca), not more than	%	0,05
12	Mass fraction of Sulfates calculated as SO ₄ ²⁻ , not more than	%	0,02
13	Mass fraction of moisture, not more than	%	0,2
14	Arsenic (As), not more than	mg/kg	3,0
15	Mercury (Hg), not more than	mg/kg	1,0
16	Lead (Pb), not more than	mg/kg	2,0

The value of indicators 6, 7, 8, 9, 10, 11, 12, 13 meet the requirements of GOST 2156. 311a•1eu11e noi,:aJaTe,1eil 1-t,IS,16
cooren-ryeT Tpe600a111111M TP TC 029/2012 «Tpe600a11111 6e1011ac11ocr11 IJIIWCBbIX I106aBOK, apo
The value of indicators 14, 15, 16 meets the requirements of TR CU 029/2012 "Requirements for the safety of food additives,
flavorings and technological means".

The food product is suitable for human consumption and meets the requirements of the European Union laws on food safety and quality.

Acceptance tests are carried out according to GOST 32802. GOST 2156

Test methods:

Table:

clauses 1, 2, 3, 4, 5 according to GOST 32802,

clauses 6, 7, 8, 9, 10, 11, 12, 13 according to GOST 2156,

clauses 14, 15, 16 according to GOST R 51766. GOST R 53183. GOST 30178.

Physical characteristics:

Material structure: free-flowing crystals

Solubility: freely soluble in water and insoluble in ethanol Bemecrno CJ1a6omeno<1Hoe/ Slightly alkaline.

Relative density, g/cm³ : 2,21-2,23 (at T=20° C)

Use:

In food industry as a pH control agent, anticaking agent and food leavening agent. Used in confectionary and bakery.

PRODUCT SPECIFICATION**Sodium Bicarbonate. Food additive E500(ii)**

Date of Issue

25.01.2022

2 of 2

Packing:

-500 g cartons;

-25 kg polyethylene bags;

-1000kg and 1200kg

4-strap polypropylene big bags with polyethylene inserts.

It is allowed to use other types of packaging that ensure the safety of food sodium carbonates during storage and transportation, and manufactured materials that meet the requirements of TR CU 005/2011 "On the safety of packaging" or regulatory legal acts in force in the state that adopted the standard.

Marking:

The labeling meets the requirements of CU TR 029/2012 "Safety requirements for food additives, flavorings and technological aids" and CU TR 022/2011 "Food products in terms of their labeling".

Transportation:

Sodium hydrogen carbonate shall be transported in closed vehicles by all modes of transport according to the rules for the transport of goods applicable to this type of transport.

Storage:

Sodium hydrogen carbonate shall be stored in the manufacturer's packaging in dry heated warehouses on wooden shelves or pallets at a temperature from 10°C to 30°C and relative air humidity not more than 70%. Storage of Sodium hydrogen carbonate with other substances is not allowed.

The shelf life of food sodium carbonates is not limited, provided that the storage conditions are observed. The recommended shelf life of Sodium hydrogen carbonate is two years from the date of manufacture.

Distribution and supply methods:

Sodium bicarbonate food additive E500 (ii) is sold through DMC Delta Consultancy.

Certificate of conformity «HALAL» No POCC RU.HA19.H00005 until 09.10.2024;

Certificate of compliance of the safety management system with respect to the production of food additives sodium bicarbonate E500 (ii) with the requirements of GOST R ISO 22000-2019 HCC-RU-IA I 9-K-00071-20 until 27.09.2023.

**PRODUCT SPECIFICATION****Sodium Bicarbonate. Feed material**

	14	
Date of issue	17.03.2022	1 of 2

CHEMICAL FORMULA:
CHEMICAL NAME (IUPAC name):

NaHCO₃
Sodium hydrogen carbonate

Chemical characteristics

Nº	Parameter	Unit	Value
1	Appearance, colour	Crystalline white powder or colorless crystals	
2	smell	Without odor	
3	ph of Sodium Hydrogen Carbonate solution with mass fraction 1%	pH unit	8,0 to 8,6 incl
4	Water insoluble test	Passes the tests	
5	Carbonate Test	Passes the tests	
6	Mass fraction of ammonium salts calculated as NH ₄ , not more than	%	0,001
7	Mass fraction of Sodium Hydrogen Carbonate NaHCO ₃ not less than	%	99,3
8	Mass fraction of Sodium Carbonate, Na ₂ CO ₃ , not more than	%	0,7
9	Mass fraction of Chlorides calculated as NaCl, not more than	%	0,04
10	Mass fraction of Iron (Fe), not more than	%	0,005
11	Mass fraction of Calcium (Ca), not more than	%	0,05
12	Mass fraction of Sulfates calculated as SO ₄ , not more than	%	0,02
13	Mass fraction of moisture, not more than	%	0,2
14	Mass fraction of Sodium, not less than	%	27,2
15	Mass fraction of insolubles in hydrochloric acid, not more than	%	10
16	Arsenic (As), not more than	mg/kg	2,0
17	Lead (Pb), not more than	mg/kg	10,0
18	Mercury (Hg), not more than	mg/kg	0,1
19	Cadmium (Cd), not more than	mg/kg	2,0
20	Fluorine (F), not more than	mg/kg	150,0

Note: The value of indicators meet the requirements of the Directive 2002/32/EC on undesirable substances in animal feed

Control:

Acceptance tests are carried out according to GOST 32802, GOST 2156

Test methods:**Table:**

clauses 1, 2, 3, 4, 5 according to GOST 32802;

clauses 6, 7, 8, 9, 10, 11, 12, 13 according to GOST 2156;

clause 14 according to MI 9-A2-2016 "Method for measuring the mass fraction of sodium in purified sodium bicarbonate by calculation";

clause 15 according to MI 8-A2-2016 "Methodology for measuring the mass fraction of substances insoluble in hydrochloric acid in purified sodium bicarbonate by the gravimetric method».

clauses 16, 17, 18, 19, 20 according to GOST

30178, GOST R 51766, GOST R 53183, DIN EN ISO 11885:2009, DIN 38405-4, DIN EN ISO 12846:2012.

PRODUCT SPECIFICATION

Sodium Bicarbonate. <i>Feed material</i>		14	
	Date of issue	17.03.2022	2 of 2

Physical characteristics:

Material structure: free-flowing crystals.

Solubility: freely soluble in water and insoluble in ethanol

Slightly Alkaline

Relative density, g/cm: 2,21-2,2233 (at T=200C).

Use: In production of feeds for all animal species (cattle, pig, poultry), as an anticaking agent, reducing agent (pH control)

Packing:

-25 kg polyethylene bags;

-/ 1000 kg and 1200kg strap polypropylene big bags with polyethylene inserts.

Marking: The labeling meets the requirements of CU TR 029/2012 "Safety requirements for food additives, flavorings and technological aids" and CU TR 022/2011 "Food products in terms of their labeling", Directive 2011/91/EC on Signs and Labeling, allowing identification of the lot to which the food product belongs (codification), Commission Regulation (EU) No 939/2010 on the introduction of amendments to Annex IV to Regulation No 767/2009 on the labeling of feed materials or mixed fodder, in accordance with Article 11.

Transportation: Sodium hydrogen carbonate shall be transported in closed vehicles by all modes of transport according to the rules for the transport of goods applicable to this type of transport.

Storage: Sodium hydrogen carbonate shall be stored in the manufacturer's packaging in dry heated warehouses on wooden shelves or pallets at a temperature from 10°C to 30°C and relative air humidity not more than 70%.

Storage of Sodium hydrogen carbonate with other substances is not allowed.

The shelf life of sodium carbonates is not limited, provided that the storage conditions are observed.

The recommended shelf life of Sodium hydrogen carbonate is two years from the date of manufacture.

Distribution and supply methods

Sodium bicarbonate. Feed material is sold through DMC Delta Consultancy

**PRODUCT SPECIFICATION****Sodium Bicarbonate**

Date of Issue

25.01.2022

1 of 2

CHEMICAL FORMULA:NaHCO₃**CHEMICAL NAME (IUPAC Name):**

Sodium Hydrogen Carbonate

NO. EINECS (EC):

205-633-8

NO. CAS:

144-55-8

Chemical characteristics

N2	Parameter	Unit	Value
1	Appearance	Crystalline white powder, without odor, without odor	
2	Mass fraction of Sodium Hydrogen Carbonate NaHCO ₃ , not less than Mass	%	99,3
3	fraction of Sodium Carbonate, Na ₂ CO ₃ , not more than	%	0,7
4	Mass fraction of Chlorides calculated as NaCl, not more than	%	0.04
5	Mass fraction of ammonium salts calculated as NH ₄ ⁺ , not more than	%	0,001
6	Mass fraction of insolubles in water	Passes the tests	
7	Mass fraction of Iron (Fe), not more than	%	0.005
8	Mass fraction of Calcium (Ca), not more than	%	0,05
9	Mass fraction of Sulfates calculated as SO ₄ ²⁻ , not more than	%	0.02
10	Mass fraction of moisture, not more	%	0.2
11	Arsenic (As), not more than	mg/kg	3,0
12	Lead (Pb), not more than	mg/kg	5,0
13	Mercury (Hg), not more than	mg/kg	1,0

The product complies with the requirements of the following regulations of the European Union (EU): EU Regulation no. I 907/2006; EU Regulation CLP, resolution EU 453/2010. Registration number (REACH Registration No.) 01-2119457606-32-0019.

Control:

Acceptance tests are carried out according to GOST 2156

Test methods: Table: clauses 1-10 according to GOST 2156; subclauses 11, 12, 13 - according to GOST R 51766, GOST 30178. GOST R 53183

Physical characteristics:

Material structure: free-flowing crystals. Slightly alkaline. Relative density. g/cm³: 2,21-2.23 (at T=20°C) Use: In the chemical industry -for the production of dyes, foams and other organic products, fluoride reagents, household chemicals(cleaning agents), fillers in fire extinguishers, for flue gas treatment, in water treatment. In consumer industry - in production of sole rubber and synthetic leather, in leather making (curing and neutralization), textile industry (finishing of silk and cotton fabrics). As a technological additive to metals and in the metallurgical industry. In paper and pulp production.

DMC Delta Consultancy
PRODUCT SPECIFICATION

Sodium Bicarbonate

Date of Issue

25.01.2022

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Packing:

-25kg polyethylene bags;
-1000 kg and 1200kg 4-strap polypropylene big bags with polyethylene inserts.

Marking:

Transport marking - in accordance with GOST 14192 "Marking of goods".

Transportation:

Sodium bicarbonate is transported by all types of transport (except aviation) in covered vehicles in accordance with the rules of cargo transportation applicable to this type of transport.

Storage:

Sodium bicarbonate is stored in closed warehouses.

Sodium hydrogen carbonate shall be stored in the manufacturer's packaging in dry heated warehouses on wooden shelves or pallets at a temperature from 10°C to 30°C and relative air humidity not more than 70%.

The EXPIRATION date is not limited.

The guaranteed shelf life of technical sodium bicarbonate is 12 months from the date of manufacture.

Information on handling, storing and end use is specified in MSDS for Sodium Hydrogen Carbonate.

Distribution and supply methods:

Sodium bicarbonate is sold through DMC Delta Consultancy.

Accompanying documents:

-Safety Certificate according to Regulation (EC) No 1907/2006 (REACH), as amended (Annex II as amended, according to Regulation (EC) No EC 2015/830). Date of preparation: 18.05.2018 (version 3);

-(**REACH Registration No**): 01-2119457606-32-0019



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