



## Food ingredients range

Sodium Bicarbonate  $\text{NaHCO}_3$  E 500 ii  
Sodium Carbonate  $\text{Na}_2\text{CO}_3$  E 500 i



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# Ingredients for food, bakery and soft drinks

Humens produces valuable and essential ingredients for the food market. Our product portfolio is based on Sodium Bicarbonate ( $\text{NaHCO}_3$ , E 500ii) and Sodium Carbonate ( $\text{Na}_2\text{CO}_3$ , E 500i).



## Food ingredients coming from nature

Sodium Carbonate is first produced through the carbonation of purified natural salt brine. Sodium Bicarbonate is obtained through a complementary carbonation of a filtrated aqueous Sodium Carbonate solution. The quality of the carbon dioxide used in the carbonation is controlled to ensure the purity of our products.

## Quality insurance of sodium bicarbonate and sodium carbonate

Sodium Carbonate and Sodium Bicarbonate commercial grades are of high purity. Both sites Novacarb and Novabay offer Sodium Bicarbonate manufactured under FSSC 22000 management system (for more details, please see our product range). These food ingredients comply with the criteria of the Food Chemical Codex. The quality of Sodium Bicarbonate and Sodium Carbonate is closely controlled all along the production process. HACCP methodology is applied to ensure that our food ingredients are safe and to meet our customers' requirements.

## Benefits of sodium carbonate

Compared to Sodium Bicarbonate, Sodium Carbonate is alkaline ( $\text{pH} = 11.2$ ) and is used to adjust the  $\text{pH}$  value. It is also hygroscopic and can consequently be used as a dessicant material, or to hold moisture inside fish fillets or shrimps.

## Benefits of sodium bicarbonate

Sodium Bicarbonate ( $\text{pH} = 8.3$ ) is a safe, non hazardous, environment friendly food additive with a slight salty taste. Its chemical features allow various end uses, for instance as an acidity regulator (for a better conservation of the product), a source of carbon dioxide in baking powders (as a leavening agent) and in powder drinks (for the formation of foam)..

## Humens and your requirements

High standards of production and well controlled raw materials enable Humens' sodium carbonate and sodium bicarbonate to reach a high purity level with no aluminum and no heavy metals. Our R&D and sales team is available to give you technical support and to help you to choose and test the most suitable grade.



## Sodium bicarbonate | $\text{NaHCO}_3$

Humens' sodium bicarbonate commercial grades contain  $\geq 99.0\%$   $\text{NaHCO}_3$  and  $\leq 0.25\%$  moisture. Typical water activity values are between 0.4 and 0.6. Upon request, sodium bicarbonate BC P can be enhanced with additives, to improve its flowing properties or to make it hydrophobic and delay its dissolution in water or in aqueous formulation (only sold in Europe).



### • Sodium Bicarbonate product range overview

Manufacturing site	Sodium bicarbonate grade	Average diameter ( $\mu\text{m}$ )	Average density ( $\text{kg/m}^3$ )	Dissolution time ( $20^\circ\text{C}$ , 175 rpm)
Novacarb - France	BC EF	38	900	1 min
Novacarb - France	BC P	55	985	5 min
Novacarb - France	BC N*	130	1190	6 min 30
Novacarb - France	BC UCG*	280	1140	10 min
Novabay - Singapore	Fine*	130	1120	6 min 30
Novabay - Singapore	Coarse*	270	1140	9 min 50

\*Workshop under management system that is FSSC 22000 certified.

## Sodium carbonate | $\text{Na}_2\text{CO}_3$

Humens' sodium carbonate commercial grades contain  $> 99.5\%$   $\text{Na}_2\text{CO}_3$ ,  $< 0.25\%$   $\text{NaCl}$  and  $< 1\%$   $\text{H}_2\text{O}$ .

### • Sodium carbonate product range overview

Manufacturing site	Light soda ash grade	Average diameter ( $\mu\text{m}$ )	Average density ( $\text{kg/m}^3$ )	Dissolution time ( $20^\circ\text{C}$ , 175 rpm)
Novacarb	CARA P - Premium grade	55	660	2 min 50
Novacarb	CL	100	550	4 min 30





## Our company

### Historical know-how

Humens produces sodium-based mineral compounds. Our company has a production history that goes back more than 160 years at our La Madeleine plant in Laneuveville-devant-Nancy, France. Our products are made from two high purity natural mineral raw materials extracted in the Lorraine region: limestone from our Pagny-sur-Meuse quarry and salt from our Lenoncourt salt field. From local to global player, Humens set up a greenfield sodium bicarbonate unit in Singapore in 2016.

### Shared goal for product quality

Humens is a state-of-the-art company with 400 skilled and committed employees. We have been passionate about products purity and satisfying our customers' needs since our industrial activities were launched in 1855.

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