



CIECH S.A. SALT PRODUCTS



Ciech



CIECH GROUP

CIECH is an international, professionally managed group of Polish origin holding a stable leader position in chemical industry in Central and Eastern Europe. The Company produces modern, top quality products used by clients all over the world. Thanks to the support of the trustworthy strategic investor, CIECH runs its policy of global development, year by year extending sales on more and more markets. In this process, it combines modern business approach with production tradition that dates back to 1882.

CIECH Group manufactures products that meet the top quality standards, and in particular: soda ash and baking soda, salt products, polyester and epoxy resins, products for agricultural industry, glass industry and other materials for chemical industry. They are used in, among other things, the following industries: glass, food, furniture, detergent production, in agriculture and construction industry. Operations of CIECH Group are based on the extensive portfolio of clients including both global chemical companies, and smaller clients from Europe, Africa, or Asia.

CIECH Group has the position of the leader in many markets:

- » the second largest in Europe and the largest in Central and Eastern Europe producer of soda ash and the second largest in Europe (ex aequo with Novacarb) producer of baking soda;
- » the only Polish producer and main national supplier of soda ash and baking soda, calcium chloride, epoxy resins;
- » the largest Polish producer of evaporated salt, plant protection products, saturated polyester resins and glass lanterns;
- » significant supplier of calcium chloride, epoxy resins, sodium silicates to European markets.

CIECH Group operates in internally diversified segments: sodium, organic, silicate, glass, transportation. A significant part of CIECH S.A. operations is focused on salt production and processing.



CIECH Janikowo Production Plant – salt product packaging line

SALT PRODUCTION IN A NUTSHELL:

- **1976** – commencement of production of evaporated vacuum salt
- **115 employees** – at Janikowo Production Plant
- **24 h per day** – round the clock production in 3-shift system
- **1 700 tons of salt** – daily production efficiency
- **600 000 tons** – annual production

COUNTRIES WHERE CIECH S.A. SALT PRODUCTS ARE DELIVERED:

Western Europe:

Germany, Belgium, France, Italy;

Nordic countries:

Sweden, Finland, Norway;

Central Europe:

Poland, Czech Republic, Slovakia, Hungary, Bulgaria;

Eastern Europe:

Lithuania, Latvia, Russian Federation, Ukraine.





FOOD GRADE SALT



IODIZED FOOD GRADE SALT

FOOD GRADE SALT

Food grade salt is produced of saline solution from wet exploitation of natural rock salt deposits and is widely used in food industry. It is considered the oldest preservative in the world.

PURPOSE



Seasoning production



Production of bread and dairy products



Fruit-vegetable processing



Fish and meat industry



INDUSTRIAL SALT

Industrial salt is one of ingredients in production of detergents, washing powders, and colorants. It is also widely used in electrolysis process and in soda production.

Industrial salt, similar to food grade salt, is produced of saline solution from wet exploitation of natural rock salt deposits.

PURPOSE



Production of washing powders, washing liquids, soaps, detergents, colorants



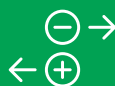
Heat industry (water softening process)



Tanning and textile industry



Winter road maintenance



Electrolysis and soda production



Chemical industry



SODIUM CHLORIDE - FEED GRADE

Used in agriculture and fodder production processes that complete farm animal diet (in particular, ruminants) with mineral ingredients. It is also used in feeding wild animals since it improves absorption of potassium, magnesium, and calcium. Sodium chloride - feed grade is also used for production of salt licks. Sodium chloride - feed grade* is obtained from saline solution from wet exploitation of natural rock salt deposits. The product is a mineral substance that improves fodder with additional sodium.

*The limit of dioxins and aflatoxins in complies with the Resolution of the Minister of Agriculture and Rural Development on Contents of Undesired Substances in Feed. (Journal of Laws 2012 No. 0 item 203 - as amended).

PURPOSE



Animal fodder production



Feeding wild animals



Salt lick production



NITRITE CURING SALT 0,5-0,6% NaNO₂



NITRITE CURING SALT 0,8-0,9% NaNO₂

NITRITE CURING SALT

The nitrite curing salt is a necessary additive in production of meat and processed meat products. Curing is derived from one of the oldest ways of preserving food – using salt as a preservative.

Nitrite Curing Salt is of key importance for meat safety:

- it assures microbiological stability eliminating the risk of botulism;
- it preserves meat adding pink colour and seasoned flavour.

*The product is not suitable for direct consumption

PURPOSE



Preserving meat



Preparing marinades



Curing sausages



SALT TABLETS FOR WATER TREATMENT

Hard water results in unnecessary use of softening agents and creation of lime scale that limits the efficiency of the heating process and significantly increases fuel consumption. This is why water purification is more and more often used. Special water softening systems with salt tablets (also called tabletted salt), are used in the process.

Tablets are produced of evaporated salt with anti-caking agent below 3 mg/kg and do not contain any mechanical impurities. The tablet is odourless and assures perfect parameters for water. Water will be completely safe for human health and ready for instant use.

Salt tablets by CIECH S.A. comply with the strictest requirements of producers of softeners and water treatment stations, and also:

- the production process is subject to constant monitoring and control thanks to which the product does not contain any mechanical impurities that may expose the softening device to damage;
- do not cause formation of the so-called salt deposits lowering the life and efficiency of water treatment devices;
- the actual contents of the product comply with parameters specified in its attestation (it is guaranteed by the factory sealed packaging).

Advantages of using CIECH S.A. salt tablets:

- no lime scale formation in heating devices and systems which improves their life and efficiency;
- no scale on taps, rain showers, shower cabin, tiles, or kettles;
- possibility to quit using salt for dishwashers;
- lower consumption of chemical agents, washing powders, soap, shampoos, dishwasher agents.

PURPOSE



Home water treatment devices and plants



Industrial water treatment plants



Carwashes



Water treatment industrial facilities



KUJAWSKA SALT

Kujawska Salt (Sól Kujawska) is one of the best recognisable brands and products on the cooking seasoning market. It is an unbeatable seasoning for soups, salads, rice, potatoes, pasta. A lot of people cannot imagine a meal without a pinch of cooking salt. The Kujawska Salt comes from one of the most ecologically pure regions of Poland, i.e. Ziemia Kujawska.



PURPOSE



For soups and salads



For potatoes, French fries, and rice



For meat and other cooking purposes



For preserves

CIECH S.A. SALT PRODUCTS DO NOT CONTAIN:



GMOs



animal ingredients



allergens



gluten



no ionising radiation
is used in production

**CERTIFICATES OBTAINED BY SALT RANGE PRODUCER,
CIECH SODA POLSKA S.A. COMPANY**

- Management System Certificate ISO 9001:2008/ ISO 14001:2004
- Certificate of Kashrut
- Management System Certificate according to PN-EN ISO 17025:2005
– for test laboratories
- FSSC 22000 Certificate

The technological process features the FSSC 22000 system that eliminates or limits the risk of chemical, microbiological, and physical impurities enter the product to the safe level. This is particularly important in the case of cooking and sodium chloride – feed grade salts.



TRANSPORTATION AND STORING RECOMMENDATIONS FOR SALT PRODUCTS

- Salt should be transported in clean, covered containers as per applicable legal regulations;
- The load should be evenly distributed in a manner preventing moving of packages and their damaging;
- Product should be stored in clean and dry rooms with humidity below 75% in tight containers.

Product	Package capacity	Number of bags / multipacks on a layer	Number of layers	Number of bags / multipacks on a palette	Palette net weight	Height of packed palette
Kujawska salt	1 kg	14 pcs. x 10 kg	7	98 pcs.	980 kg	107 cm
Food grade salt	25 kg	5 pcs.	8	40 pcs.	1 000 kg	102 cm
	1 000 kg	1 pcs.	1	1 pcs.	1 000 kg	145 cm
Iodized food grade salt	25 kg	5 pcs.	8	40 pcs.	1 000 kg	102 cm
Industrial salt	25 kg	5 pcs.	8	40 pcs.	1 000 kg	102 cm
	1 000 kg	1 pcs.	1	1 pcs.	1 000 kg	145 cm
Sodium chloride - feed grade	25 kg	5 pcs.	8	40 pcs.	1 000 kg	102 cm
	1 000 kg	1 pcs.	1	1 pcs.	1 000 kg	145 cm
Nitrite curing salt 0,5-0,6%	25 kg	5 pcs.	8	40 pcs.	1 000 kg	102 cm
Nitrite curing salt 0,8-0,9%	25 kg	5 pcs.	8	40 pcs.	1 000 kg	102 cm
Salt tablets for water treatment	25 kg	5 pcs.	8	40 pcs.	1 000 kg	110 cm
	1 000 kg	1 pcs.	1	1 pcs.	1 000 kg	145 cm



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Due to printing technique, packaging colours may differ from the actual colours.

