



BROXO[®]

**WATER
SOFTENING
SALT**



AkzoNobel

WATER SOFTENING SALT



The efficiency of water softening installations largely depends on the quality of the salt used. This is why BROXO® has developed very pure regeneration salt, compacted under high pressure. Our quality products BROXO®, Broxetten®, BROXO® Block, and BROXAL® offer you tailor-made regeneration salt for all types of water softening installations, industrial as well as domestic, laboratories, hospitals and clinics.

HARD WATER COSTS MONEY

Water is more than just H₂O. Water also contains various high concentrations of calcium and magnesium ions and this leads to scaling and furring. This will reduce the life span and efficiency of heating equipment, pipes and taps. Besides, hard water also reduces the cleaning power of soaps and detergents and causes unsightly scale on baths and crockery. Therefore, water is softened to save money and avoid inconvenience.

WATER SOFTENING

Water softening installations remove unwanted calcium and magnesium ions by a process referred to as ion exchange. The ion exchanger consists of one or more tanks, filled with millions of tiny synthetic resin beads. These resin beads are saturated with sodium ions. When the hard water passes through the tank with the ion

exchanger, the calcium and magnesium ions in the water are attracted so strongly by the resin beads that they are absorbed by the resin. The sodium ions are repelled in the process and end up in the now soft water.

REGENERATION SALT

After a while, the synthetic beads become saturated with calcium and magnesium ions and the ion exchanger will have to be regenerated. This means that the resin beads have to be refilled with sodium ions and at the same time be stripped off the calcium and magnesium ions. For this purpose, brine water fully saturated with salt is led through the resin tank. The brine solution is taken from a separate storage tank with compacted regeneration salt. The compacted salt slowly dissolves in the water and thus keeps the brine supply strong.



TROUBLE FREE SOLUTIONS FOR EVERY APPLICATION

In close cooperation with producers and suppliers of industrial and domestic water softening installations we developed a complete product line. For most applications, a BROXO® product is available with the right bead size, so that we can always meet your specific process and equipment requirements.

- BROXO® 6-15 for laundries, domestic and industrial use
- Broxetten® for hospitals laboratories and domestic
- BROXO® 1-3/1-6 for dishwashers
- BROXAL® for industrial dishwashers and washing machines for medical and laboratory equipment
- BROXO® Blocks for specific, water softening equipment

OPTIMAL BRINE SOLUTION

Regeneration salt should dissolve evenly and gradually in order to form a perfect brine solution at every regeneration cycle. Most regeneration salts are compacted under low pressure. That is why they disintegrate more readily, which is referred to as 'mushing', and form an impermeable cake in the storage tank or other elements of the water softening system. BROXO products always retain their form, even after long periods in the brine tank. This is the result of a unique production method, in which the refined vacuum salt is compacted under special conditions and high pressure. BROXO products therefore not only provide soft water, but also eliminate the need for storage tank cleaning and thus prevent extra maintenance.

BEST QUALITY

For maintenance-free and efficient operation of your water softening

installation it is essential that the regeneration salt used is of the best quality. The BROXO products meet all requirements to ensure smooth operation.

VERY PURE REFINED VACUUM SALT

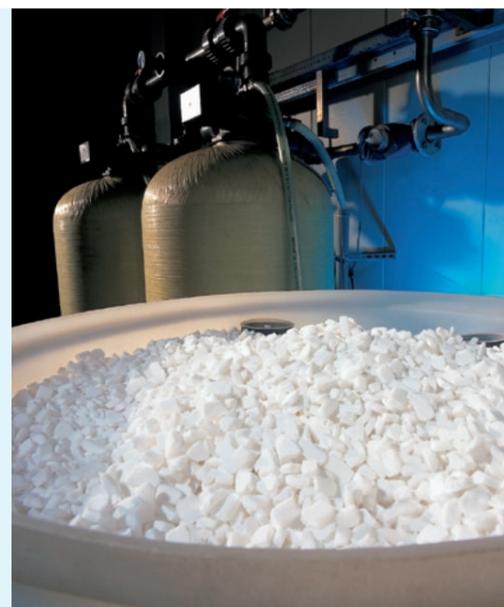
BROXO products are made of very pure refined vacuum salt, free from any harmful soluble or insoluble contaminants. Insoluble contaminants damage pumps and valves and may be deposited in the brine tank. Soluble contaminants form a threat for the ion exchanger and the quality to the end product, 'soft water'. That is why no sea salt or rock salt is used in any BROXO products, but only very pure refined vacuum salt.

CONSISTENT QUALITY

BROXO meets the most stringent international requirements. All sites where BROXO is produced are ISO 9001-certified and meet the HACCP (=Hazard Analysis by Critical Control Points)-protocol requirements. Besides, all BROXO products meet the industrial standard for regeneration salt (EN 973 type A). BROXO products are therefore free of contaminants and hygienically packed, as many water softening systems also supply drinking water.

FOR INDUSTRIAL AND HOUSEHOLDS

Our assortment is suitable for both industrial and household purposes. Equipment will last longer and filter functions will have better functionality because of our high quality salt. The service needs for your water softening equipment will be very limited and save money on a long term basis.



ADVANTAGES OF BROXO® VACUUM SALT OVER SEA OR ROCK SALT

Vacuum salt is the purest salt on earth and, compared with sea or rock salt, hardly contains any harmful soluble or insoluble contaminants. These contaminants damage pumps and valves and may be deposited in the brine tank. At the same time, the contaminants form a threat to the ion exchanger and, consequently, the quality of the end product, 'soft water'. Broxo® vacuum salt extends the life of your equipment and saves you cleaning and maintenance costs.

APPLICATION	PRODUCT	TYPE
Domestic watersoftening	BROXO® 6-15 10 kg BROXETTEN® 25 kg	Compacted vacuum salt 6-15 mm Tablets
Industrial watersoftening	BROXO® 6-15 25 kg BROXETTEN® 25 kg BROXO® 1-6	Compacted vacuum salt 6-15 mm Tablets Compacted vacuum salt 1-6 mm
Dishwashing	BROXO® 1-3/1-6	Compacted vacuum salt 1-3/1-6 mm
Compact water softening installations	BROXO® BLOCK 2,5 kg	Block



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AkzoNobel is the largest global paints and coatings company and a major producer of specialty chemicals. We supply industries and consumers worldwide with innovative products and are passionate about developing sustainable answers for our customers. Headquartered in Amsterdam, the Netherlands, we are a Global Fortune 500 company and are consistently ranked as one of the leaders on the Dow Jones Sustainability Indexes. With operations in more than 80 countries, our 55,000 people around the world are committed to excellence and delivering Tomorrow's Answers Today™

You can read more about BROXO® on www.broxosalt.com

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