



MORTON SALT

PRODUCT DATA SHEET

Morton® Clean and Protect® + Rust Defense™ Water Softening Pellets

Description

- Morton® Clean and Protect® + Rust Defense™ Water Softening Pellets for recharging water softeners are compressed from either vacuum granulated salt or solar salt incorporating evenly dispersed concentrations of soluble resin cleaning additives. In addition, it contains a rust defense additive. This additive, in combination with sodium chloride, offers an effective system for minimizing iron and manganese fouling of softener resins.
- The pellets have a minimum purity of 99.65% sodium chloride.
- This product is certified to NSF/ANSI/CAN 60.
- The principle salt impurity is either calcium sulfate or sodium sulfate. Other impurities may consist of traces of calcium chloride, magnesium sulfate, and magnesium chloride.
- According to NSF, for electrolytic sodium hypochlorite generator use of this product, the maximum disinfectant feed concentration for the following plants shall not exceed 2 mg Cl₂/L (Silver Springs), 2.5 mg Cl₂/L (Canaveral), 2.8 mg Cl₂/L (Fairless Hills), 3.1 mg Cl₂/L (Rittman), 5.9 mg Cl₂/L (Manistee), 8.4 mg Cl₂/L (Windsor), or 10 mg Cl₂/L (Glendale, Grand Saline, Grantsville and Hutchinson). This requirement limits bromate production in the effluent sodium hypochlorite and is based on the bromide concentration in the salt.

Use

- Designed for use in home and light commercial water softeners and other ion-exchange water treatment processes in which sodium chloride is used for resin regeneration.
- The product can be applied effectively in all designs of softener brine tanks.
- The formula is not abusive to softener parts and resin. It is compatible with chemicals and specialized resins used in treatments for iron and other foulants.
- Cleansing additives are thoroughly flushed from the system during resin regeneration.

Chemical Properties

<u>Analyte</u>	<u>u/m</u>	<u>Range</u>	<u>Note</u>
Sodium Chloride	%	>=99.65	1
Water Insolubles	%	<=0.10	

- Note 1. By difference of impurities, before additives, moisture-free basis (ASTM Methods).

Physical Properties

- Typical pellet size dimensions are 1" long, 5/8" wide and 3/8" thick.
- Pellets from Glendale, AZ have typical dimensions of 1-1/4" long, 3/4" wide and 1/2" thick.
- Typical compacted bulk density is 1.1 g/ml (68 lbs/cu. ft.).
- Initial voids immersed in water are 48-52%. Void capacity does not vary significantly over several regeneration cycles in a softener brine tank.

Codes

<u>Pack</u>	<u>Material Code</u>	<u>UPC</u>
40-Pound Film Bag	F124700000	0 24600 01470 0

Storage/Coding

- Chemically stable. Store indoors or cover with black plastic to protect from wetting or direct sunlight. Packaging can disintegrate upon prolonged exposure to UV radiation. Minimum storage life of one year if properly stored.
- A manufacturing lot code appears on bottom bag seam.

Plants

- U.S.A. -- Glendale, AZ; Port Canaveral, FL; Hutchinson, KS; Manistee, MI; Silver Springs, NY; Rittman, OH; Grand Saline, TX; Fairless Hills, PA; and Grantsville, UT
- Canada -- Windsor, ON (Affiliate Windsor Salt Ltd.)

These data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determines the suitability of our material and suggestions before adopting them on a commercial scale.