PDS 3372 PDS Version No: 01 Spec. No: 284-11
Date Published: 12/09/2022 Date Spec Reviewed: 12/09/2022

MORTON SALT

PRODUCT DATA SHEET

Morton® Professional Water Softener Crystals

Description

- This product is produced from solar evaporated salt at several manufacturing locations.
- Salt brine is impounded in shallow ponds where moisture is slowly evaporated by the action of solar heat absorption and wind.
- The wet harvested salt is then dried and screened.
- Fractional crystallization and washing voids much of the inorganic salt impurities present in the brine.
- There are no additives.
- This product tends to crystallize in pyramidal aggregates which are broken up in milling to irregular, rectangular particles.
- Appearance is crystalline to white.
- Some production may contain traces of off-colored insolubles.
- Meets AWWA Standard B200 for Sodium Chloride.
- This product is certified to NSF/ANSI/CAN 60.
- According to NSF, for electrolytic sodium hypochlorite generator use of this product, the maximum disinfectant feed concentration for the following plants shall not exceed 2.5 mg Cl2/L (Canaveral), 2.8 mg Cl2/L (Fairless Hills), 4.5 mg Cl2/L (Long Beach), or 10 mg Cl2/L (Glendale and Grantsville). This requirement limits bromate production in the effluent sodium hypochlorite and is based on the bromide concentration in the salt.

Use

- This product can be employed in any type of home or light commercial softener brine tank properly equipped to filter fine insolubles to avoid valve clogging. It should not be used in touch grid plate, hydrosyphon systems designed for pelletized vacuum salt as fine insolubles and undissolved salt will accumulate in the reservoir below the grid, gradually reducing brine volume for resin regeneration.

Chemical Properties

Analyte	u/m	Range	Note
Sodium Chloride	%	>=99.47	1
Calcium Sulfate	%	<=0.31	
Other Salts	%	<=0.27	2
Calcium & Magnesium as Calcium	PPM	<=1,500	
Moisture (Surface)	%	<=0.20	
Water Insolubles	%	<=0.14	

- Note 1. By difference of impurities, moisture-free basis (ASTM Methods).
- Note 2. One or more of the following salts -- calcium chloride, magnesium sulfate, magnesium chloride and sodium sulfate.

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Physical Properties

- This product has a screen tolerance for excessive fines, 5% passing a U.S.S. 12 Mesh sieve, to avoid a tendency to bridge in softener brine tanks.
- Initial voids immersed in water are 48-52%. Void capacity does not vary significantly over several regeneration cycles in a softener brine tank.

Particle Size

Screen	u/m	Range	Retained/Passing
U.S.S. 12 Mesh (1.7 mm opening)	%	>=95	Retained
Pan	%	<=5	Retained

Codes

Pack	Material Code	UPC
50-Pound Film Bag	F149800000	0 24600 03980 2

Storage/Coding

- Salt is chemically stable and will not support microbial growth. To reduce the incidence of caking, store in a cool, dry area, relatively free of drafts, where the humidity does not regularly cycle through 75% rh. Under these conditions, the shelf life is indefinite.
- Store indoors or cover with black plastic to protect from wetting or direct sunlight. Packaging can disintegrate upon prolonged exposure to UV radiation.
- A manufacturing lot code is found on the package.

Plants

- Glendale, AZ; Long Beach, CA; Port Canaveral, FL; Fairless Hills, PA; and Grantsville, UT

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