

Morton® Solar Salt Water Softening Crystals



PDS 3370
2/14
Rev 1

Description

Morton® Solar Salt Water Softening Crystals are produced from solar evaporated salt at several sites. 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 contributed by the salt brine. There are no additives.

Solar salt tends to crystallize in a pyramidal aggregate which breaks up in milling to irregular, somewhat rectangular particles, white to crystalline in appearance. Some production may contain traces of off-colored insolubles.

This product meets the specifications of ANSI/AWWA Standard B200 and is certified to ANSI/NSF Standard 60.

Use

Solar Salt Water Softening Crystals 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, hydrosiphon 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

The primary impurity is the completely-soluble gypsum form of calcium sulfate. Other salt impurities consist of traces of calcium chloride, magnesium chloride and sulfate.

Analysis Range

*Sodium Chloride (%)	99.5 Minimum
Other Salts (%)	0.5 Maximum
Water Insolubles (%)	0.1 Maximum
Moisture (Surface) (%)	0.15 Maximum

*By differences of impurities, moisture-free basis (ASTM procedures).

Particle Size

Solar Salt Water Softening Crystals have 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.

U.S.S. Mesh	Opening Millimeters*	Percent Retained**
12	1.7	95 Minimum
pan	-	5 Maximum

* On individual screens

** 10 millimeters (mm) per centimeter; 25.4 millimeters per inch

Voids

Initial voids immersed in water are 44 - 52%. Void capacity does not vary significantly over several regeneration cycles in a softener brine tank.

Storage/Coding

Solar Salt Water Softening Crystals are 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.

Producing Plants

Port Canaveral, FL; Perth Amboy, NJ; Glendale, AZ; Grantsville, UT; Long Beach, CA; Newark, CA.

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.

Form 284-11



Pack Size	40 lb. bag	50 lb. bag	60 lb. bag
Contents	Salt		
Packaging	Printed white polyethylene bag		
Commodity Code	F139830000	F139800000	F139880000
UPC Item Code	0 24600 03983 3	0 24600 03980 2	0 24600 03988 8
Net Weight (lb.)	40	50	60
Gross Weight (lb.)	40.3	50.5	60.4
Bag Cube (ft ³)	0.6	0.71	1.0
Bag Dimensions Lx W xH (in.)	20.25 x 13.75 x 3.75	21.5 x 14.25 x 4	24 x 17 x 4.25
Pallet Count	63	49	40
Pallet Pattern	9 tiers of 7	7 tiers of 7	8 tiers of 5
Pallet Weight* (lb.)	2606	2545	2486
Pallet Cube (ft ³)	46	42.5	44.4

* includes 48" x 40" standard wood pallet@ 70 lbs.