

# Product Data Sheet

## Morton® System Saver® II Formula Pellets



PDS 3350  
6/12  
Rev 1

### Description

**System Saver® II Pellets** for recharging water softeners are compressed from either vacuum granulated salt or solar salt incorporating evenly dispersed concentrations of soluble resin cleaning additives. The formula of the resin cleaning additives is patented. The pellets have a minimum purity of 99.4% sodium chloride. This product is certified to ANSI/NSF Standard 60.

### Use

**System Saver® II Pellets** are 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.

**System Saver® II Pellets** help prevent resin fouling and will retard the gradual decline in softening capacity with water containing up to 2 ppm iron, thus, extending the life of the softener\*. Morton® Rust Remover Pellets are recommended for water containing 2 – 6 ppm iron.

*\*Based on laboratory tests.*

### Benefits

**System Saver® II Pellets** provide a continuous feed of a mild cleansing formula with each resin regeneration, helping to flush accumulated dirt, bacterial and organic residues, and various iron, calcium and silica mineral deposits from the complete softener system. Continuous cleansing inhibits resin fouling and clogging of valves, extending the operating life of the entire system. This enhances soft water quality, reducing turbidity and insolubles, and delays hardness breakthrough producing cleaner, clearer water.

### Pellet Size

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. The screening specification is as follows:

|  |             |
|--|-------------|
| Retained on U.S.S. 1/4 in.<br>(6.3 mm opening) | 95% Minimum |
| Passing U.S.S. 1/4 in.<br>(6.3 mm opening)     | 5% Maximum  |

*\*25.4 millimeters per inch*

### Chemical Properties

Most of the impurities are completely soluble and do not adversely affect water softening performance. The principal impurity is calcium sulfate. Other impurities consist of traces of calcium chloride, magnesium sulfate and magnesium chloride. The pH range of a 10% solution prepared with deionized water is 3.5 – 4.5.

### Analysis

### Range

|                              |              |
|------------------------------|--------------|
| Sodium Chloride (%)          | 99.4 – 100.0 |
| <sup>2</sup> Other Salts (%) | 0.5 Maximum  |
| Additives (%)                | 0.1 Maximum  |
| Water Insolubles (%)         | 0.1 Maximum  |

*By difference of impurities and before additives, moisture free basis (ASTM) procedures.*

<sup>2</sup> May include one or more of the following: Calcium sulfate, calcium chloride, magnesium sulfate, magnesium chloride and sodium sulfate.

### Voids/Break Strength

Typical compacted bulk density is 1.1 g/ml (68 lbs/ft<sup>3</sup>). Initial voids immersed in water are 48 – 52%. Void capacity does not vary significantly over several regeneration cycles in a softener brine tank.

Pellets are compressed sufficiently hard to reduce a defect called mushing, a disintegration of the pellet structure upon prolonged immersion in brine. Severe mushing can result in bridging and channeling of the salt mass, reducing the strength or volume of brine, and leading to incomplete resin regeneration and premature hardness breakthrough. To avoid mushing, System Saver® II Pellets conform to a rigid strength standard.

### 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. Open date manufacturing code appears on bottom bag seam.

### Plants

Glendale, AZ; Newark, CA; Port Canaveral, FL; Hutchinson, KS; Manistee, MI; Silver Springs, NY; Rittman, OH; Windsor, ON; Grand Saline, TX; Grantsville, UT



## Morton® System Saver® II Pellets

## Bag Art

| Film Bags | Commodity Code | UPC Code      |   |
|-----------|----------------|---------------|---|
| 25 lb     | 1499           | 0 24600 01499 | 1 |
| 40 lb     | 1500           | 0 24600 01500 | 4 |
| 50 lb     | 1501           | 0 24600 01501 | 1 |
| 60 lb     | 1529           | 0 24600 01529 | 5 |

### Packaging

White polyethylene film bags. 25 lb. and 40 lb. bags have a rigid plastic handle and easy open feature.

| Unit Dimensions |                |                |                         |
|-----------------|----------------|----------------|-------------------------|
| Net Wt. (lb)    | Gross Wt. (lb) | L x W x H (in) | Cube (ft <sup>3</sup> ) |
| 25              | 25.3           | 16 x 12 x 3    | 0.3                     |
| 40              | 40.3           | 21 x 13 x 4    | 0.6                     |
| 50              | 50.5           | 22 x 14 x 4.5  | 0.8                     |
| 60              | 60.4           | 24 x 17 x 4.25 | 1.0                     |

| Palletized* |       |           |             |                |          |                         |
|-------------|-------|-----------|-------------|----------------|----------|-------------------------|
| Bag Size    | Tiers | Bags/Tier | Bags/Pallet | Gross Wt. (lb) | Ht. (in) | Cube (ft <sup>3</sup> ) |
| 25          | 10    | 10        | 100         | 2600           | 35       | 39                      |
| 40          | 9     | 7         | 63          | 2609           | 37       | 43                      |
| 50          | 7     | 7         | 49          | 2545           | 34       | 42                      |
| 60          | 8     | 5         | 40          | 2416           | 40       | 44                      |

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



*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.*



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