



**COMMONWEALTH OF PENNSYLVANIA**  
**PENNSYLVANIA COMMERCIAL ITEM DESCRIPTION (PCID)**

PCID NO. 1085      Evaporated Crystals (Sodium Chloride) for Water Softening/Resin Regeneration  
 Eff. 02/27/08      (Supersedes PCID 1085 eff. 12/29/05)

This Pennsylvania Commercial Item Description covers requirements for evaporated crystals (sodium chloride) for use in water softening/resin regeneration. Product shall conform to the following requirements, unless otherwise noted on the request for proposals or invitation for bids.

**1. Requirements** – The evaporated crystals (sodium chloride) for water softening/resin regeneration shall be as follows:

**1.1** The evaporated crystals (sodium chloride) shall contain no substances in quantities capable of producing deleterious or injurious effects upon the health of those consuming the water softened by a cation exchange material that has been properly generated with sodium chloride, or causing the softening water to fail to meet the requirements of AWWA # B-200-03.

**1.2** The material shall be homogeneous and in the dry, granular form shall be free from lint, chips or other foreign matter.

**1.3** The salt shall dissolve rapidly when tested by the standard float procedure and shall not require more than 20 minutes to go into complete solution.

**1.4** The evaporated salt shall be of such a fineness that 100% shall pass a 3/4” sieve and not more than 5% shall pass a No. 100 sieve.

**1.5** The pH of a 5% solution shall be a minimum of 5.5 and may not exceed 8.5.

**Maximum Tolerance Limits (shall not exceed)**

| <u>Substance</u>                | <u>Tolerance Limit Percent By Wt.</u> | <u>Water-soluble impurities/Dry Basis.</u> |
|---------------------------------|---------------------------------------|--|
| Moisture                        | 3.00                                  | Water-insoluble impurities*      0.15      |
|                                 |                                       | <u>Total impurities</u>                    |
| Calcium & Magnesium (Ca and Mg) | 0.60                                  | (Soluble + insoluble)      2.00            |
| Sulfate (SO <sub>4</sub> )      | 1.40                                  | Grease, fat, Or oil      100 ppm           |

\*Such as sand, clay, etc., exclusive of calcium and sulfate.

**2. Inspection & Rejection** - Sampling for prior to/post- award testing, if required, will be as defined in the Invitation for Bid Proposal. Inspection may be made at place of manufacture at the option of the Commonwealth after an award has been made. Inspection for final acceptance shall be made at the place of delivery and/or after laboratory testing to determine whether product or service meets the specification requirements. Samples for inspection and after delivery testing shall be selected by simple random sampling. If defects are detected during the course of delivery, or after product has been delivered, the Commonwealth reserves the right to reject the defective product and require replacement at no cost to the Commonwealth, or cancel the contract and surcharge the contractor for any expense incurred by the cancellation of the contract and in securing satisfactory materials, if the vendor fails to apply timely and corrective measures.

**3. Packaging** –Product shall be packaged according to good commercial practice. Evaporated Crystals shall be shipped in (A) bulk; (B) 50 pound or 100 pound multi-walled bags.

**4. Material Masters** – This PCID does not encompass any material masters.

**5. Documents-**

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