



# RIVERSIDE CONSTRUCTION MATERIALS, INC.

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## Specifications Sheet

### **Treated Rock Salt**

**DESCRIPTION:** Treated rock salt is a mixture of Sodium Chloride Type "A" crushed rock salt treated with Liquid Magnesium Chloride and OBPE or an approved equivalent. The liquid treatment is intended to enhance the performance of rock salt when compared to untreated rock salt. Benefits are reduced corrosion, improved low temperature performance, reduced bounce and scatter, prevention of clumping and salt pile freezing, and enhanced flowability. Treated rock salt is handled, spread, and stored in the same manner as untreated salt.

**COMPLIANCE:** Treated rock salt is not approved for human or animal consumption. It is intended for use only as a chemical de-icer on roadways and thoroughfares.

**ADDITIVES:** Treated rock salt contains liquid magnesium chloride and liquid organic based performance enhancer (OBPE)

**APPLICATIONS:** Treated rock salt is intended for use as a snow and ice prevention and removal agent on highways and other major roadways

**PACKAGING / SHIPPING:** Treated rock salt is only available in bulk form. Quantities are per load, shipped by truck.

### **CHEMICAL ANALYSIS – Sodium Chloride Type "A" Crushed Rock Salt**

| COMPONENT                | UNIT | TYPICAL | SPECIFICATION |
|--------------------------|------|---------|---------------|
| Sodium Chloride          | %    | 97      | MIN 95        |
| Moisture Content         | %    | 1.5     | MAX 2         |
| Yellow Prussiate of Soda | %    | 25      | MIN 20        |

### **SIEVE ANALYSIS - Sodium Chloride Type "A" Crushed Rock Salt**

| SIEVE SIZE        | % RETAINED | % PASSING | SPEC   |
|-------------------|------------|-----------|--------|
| 1/2" (12.5 MM)    | 0          | 100       | 100    |
| 3/8" (9.5MM)      | 1.4        | 98.6      | 95-100 |
| #4 (4.75 MM)      | 23         | 75.6      | 20-90  |
| #8 (2.36 MM)      | 38.4       | 37.2      | 10-60  |
| #30 (600 Microns) | 97.2       | 2.8       | 0-15   |

**LIQUID MAGNESIUM CHLORIDE AND OBPE:** A 1:1 blend of liquid magnesium chloride and liquid OBPE is used in the finished product of treated rock salt. This material contains 15% Magnesium Chloride plus or minus 2%, by product weight. The material also contains 21% OBPE (or approved equivalent) plus or minus 2%, which results in the final product of treated rock salt having a freezing point of -20°F or lower. All shipments of treated rock salt will include a ticket stating the amount of Liquid Magnesium Chloride and OBPE in the final product

**FINAL PRODUCT:** The chemical composition of the final product of treated rock salt is a minimum of 91.2% Sodium Chloride, in accordance with ASTM-D-632. The magnesium chloride and calcium content is in accordance with ASTM-E-534. The percentage of sodium chloride in the final product is based on the following calculation:

$$\% \text{ Sodium Chloride} = \% \text{ Apparent Sodium Chloride} - (\% \text{ Magnesium Chloride} + \% \text{ Calcium Chloride})$$

The moisture content of the final product has a maximum value of 5.3%, with a typical value of 4.8% based on the calculation of:

$$\% \text{ Moisture} = (W_1 - W_2) / (W_1) \times 100$$

Where: W1 = Initial sample weight

W2 = Weight of sample after drying to a constant weight

**SIEVE ANALYSIS – Final Product (Treated Rock Salt)**

| SIEVE SIZE        | % RETAINED | % PASSING | SPEC   |
|-------------------|------------|-----------|--------|
| 1/2" (12.5 MM)    | 0          | 100       | 100    |
| 3/8" (9.5MM)      | 1.4        | 98.6      | 95-100 |
| #4 (4.75 MM)      | 23         | 75.6      | 20-90  |
| #8 (2.36 MM)      | 38.4       | 37.2      | 10-60  |
| #30 (600 Microns) | 97.2       | 2.8       | 0-15   |