

Special Specification 8042

Winter Weather Materials (Materials Only)



1. DESCRIPTION

Furnish materials commonly used for pre-treating (anti-icing) and treating (de-icing) highways during winter weather events.

2. MATERIALS

- 2.1. **Material Producer List (MPL).** The Materials and Tests Division (MTD) maintains an MPL for some of the materials shown in this Specification. Materials appearing on the MPL, entitled "De-Icer/Anti-Icer," require no further testing unless deemed necessary by the Engineer. Use of pre-qualified product does not relieve the Contractor of the responsibility to provide product that meets this Specification.
- 2.2. **Type I Road Salt.** Provide sodium chloride materials meeting the requirements of [DMS-6400](#), "De-icer/Anti-icer."
- 2.3. **Type II Brine Salt.** Provide sodium chloride materials meeting the requirements of [DMS-6400](#).
- 2.4. **Complex Chloride (Type III and Liquid).** Provide complex chloride materials meeting the requirements of [DMS-6400](#).
- 2.5. **Premade Brine Solution.** Provide a premade brine solution meeting the requirements of [DMS-6400](#).
- 2.6. **Fracking Brine Solution.** Provide a fracking brine solution meeting the requirements of [DMS-6400](#).
- 2.7. **Type 5 Modified Aggregate.** Provide aggregate conforming to the gradation requirements shown in accordance with Table 1 when tested in accordance with [Tex-401-A](#) unless otherwise specified.

Table 1
Type 5 Modified Aggregate Gradation Chart

Sieve Size	Percent Passing
3/8"	100
#4	86-94
#8	45-65
#16	25-46
#30	15-35
#50	10-25
#100	7-18
#200	0-5

- 2.8. **Type L Aggregate.** Provide lightweight aggregate consisting of expanded shale, clay, or slate, and produced by the rotary kiln method.

Provide aggregate conforming to the gradation requirements shown in Table 2 when tested in accordance with [Tex-401-A](#) unless otherwise specified.

Table 2
Type L Aggregate Gradation Chart

Sieve Size	Percent Passing
3/8"	100
#4	86-94
#8	45-65
#16	25-46
#30	15-35
#50	10-25
#100	7-18
#200	0-5

- 2.9. **Sand.** Provide fine aggregate consisting of clean, hard, durable particles of natural, manufactured sand, recycled crushed hydraulic cement concrete, slag, lightweight aggregate, or a combination thereof.

Provide fine aggregate or combinations of aggregates conforming to the gradation requirements shown in Table 3 when tested in accordance with [Tex-401-A](#) unless otherwise specified.

Table 3
Sand Gradation Chart

Sieve Size	Percent Passing
3/8"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-65
#50	10-35 ¹
#100	0-10
#200	3-3 ²

1. 6-35 when sand equivalent value is greater than 85.
2. 0-6 for manufactured sand.

3. MEASUREMENT

- 3.1. **Type I Road Salt.** This Item will be measured by the ton, cubic yard, or bag size of dry material as defined in the plans and specifications.
- 3.2. **Type II Brine Salt.** This Item will be measured by the ton, cubic yard, or bag size of dry material as defined in the plans and specifications.
- 3.3. **Complex Chloride (Solid).** This Item will be measured by the ton, cubic yard, or bag size of dry material as defined in the plans and specifications.
- 3.4. **Complex Chloride (Liquid).** This Item will be measured by the gallon.
- 3.5. **Premade Brine Solution.** This Item will be measured by the gallon.
- 3.6. **Fracking Brine Solution.** This Item will be measured by the gallon.
- 3.7. **Type 5 Modified Aggregate.** This Item will be measured by the ton or cubic yard of dry material as defined in the plans and specifications.
- 3.8. **Type L Aggregate.** This Item will be measured by the ton or cubic yard of dry material as defined in the plans and specifications.
- 3.9. **Sand.** This Item will be measured by the ton or cubic yard of dry material as defined in the plans and specifications.

4. PAYMENT

- 4.1. **Material (Pick up).** Payment will be made at the unit prices bid for each item. This price is full compensation for furnishing materials, assistance provided in sampling, loading provided vehicles, furnishing scales and labor for weighing and measuring, and equipment, labor, tools, and incidentals.
- 4.2. **Material (Delivery).** Payment will be made at the unit prices bid for each item. This price is full compensation for furnishing materials, loading, hauling, delivery of materials, furnishing scales and labor for weighing and measuring, providing pumps and hoses for transferring liquid brine solution to a storage tank, and equipment, labor, tools, and incidentals. Delivery locations will be as shown on the plans.