

Colorado Procedure – Laboratory 4215-10

Standard Method of Test for

Determination of Percent Moisture in Rock Salt

(Designated as CP 35 prior to the 2010 FMM.)

1. SCOPE

1.1 This method describes the procedures for the quantitative determination of the percent moisture contained in rock salt.

2. APPARATUS

2.1 *Balance or Scale* - Balance of sufficient capacity and sensitive to 0.1 grams or 0.02 percent of the principal sample weight, whichever is greater.

2.2 *Drying Apparatus* – Oven or other suitable device.

2.3 *Sample Splitter* – Riffle type sample splitter to reduce sample to test portion size in accordance with CP 32, Method A (except that moisture shall not be added.)

2.4 *Small Flat, Square-End Scoop with Sides* - If selecting the specimen in accordance with CP 32, Method C.

3. FIELD SAMPLE

3.1 Obtain the field sample from random parts of the load as it is being transferred from the conveyance vehicle to the stockpile.

3.2 Seal the container lid with tape or other airtight method to prevent moisture evaporation before weighing the specimen.

4. SIZE OF TEST SPECIMEN

4.1 The minimum weight of the test specimen shall be 500 grams.

5. PROCEDURE

5.1 Immediately after obtaining the specimen, weigh to the nearest 0.1g and then dry to a constant weight of not over 220°F ± 5° (105°C ± 5°). When dry, weigh to the nearest 0.1g and report as oven dry weight.

6. CALCULATIONS

6.1 Determine the total percent moisture on an oven dry basis as follows:

$$\% \text{ Moisture oven dry basis} = \frac{\text{Wet wt.} - \text{Dry wt.}}{\text{Dry wt.}} \times 100$$

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