



MATERIAL SPECIFICATION FOR SODIUM CHLORIDE

TABLE OF CONTENTS

2502.01	SCOPE
2502.02	REFERENCES
2502.03	DEFINITIONS
2502.04	DESIGN AND SUBMISSION REQUIREMENTS
2502.05	MATERIALS
2502.06	EQUIPMENT - Not Used
2502.07	PRODUCTION
2502.08	QUALITY ASSURANCE
2502.09	OWNER PURCHASE OF MATERIAL
2502.01	SCOPE

This specification covers the requirements for the supply and delivery of sodium chloride.

2502.02 REFERENCES

This specification refers to the following standards, specifications, or publications:

ASTM International

D632 - 12(2020)e1	Standard Specification for Sodium Chloride
D2216 - 19	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
E534 - 18	Standard Test Methods for Chemical Analysis of Sodium Chloride

2502.03 DEFINITIONS

Quality Assurance (QA) means a system or series of activities carried out by the Owner to ensure that materials received from the supplier meet the requirements as specified in the Contract Documents.

2502.04 DESIGN AND SUBMISSION REQUIREMENTS

2502.04.01 Submission Requirements

The supplier upon delivery, shall submit all test results in writing verifying the material is according to this specification.

2502.05 MATERIALS

2502.05.01 General Requirements

Sodium chloride shall be in a free-flowing state until used and shall be according to Table 1 and Table 2 or ASTM D632, Type I Grade 1.

2502.07 PRODUCTION

When delivery in bags is specified, sodium chloride shall be delivered in four-ply, asphalt-lined or polyethylene-lined bags in sound condition and containing 40 kg. The closures shall be sewn.

Each bag shall be marked with the following:

- a) Name of supplier/manufacturer.
- b) Net mass.
- c) Salt grade, (i.e., coarse crushed rock salt or fine crushed rock salt).

When delivery in bulk is specified, the sodium chloride shall be shipped by rail or truck, whichever is specified.

2502.08 QUALITY ASSURANCE

2502.08.01 General

A laboratory designated by the Owner shall carry out QA testing for purposes of ensuring that the sodium chloride used in the Work is according to the physical, chemical, and gradation requirements of this specification. Testing will be performed at the discretion of the Owner.

2502.08.02 Inspection, Sampling, and Testing

Inspection of sodium chloride shall be according to ASTM D632.

Sampling, testing methods, and procedures shall be as outlined in ASTM D632 and Table 1.

One of the QA samples shall be randomly selected for testing by the QA laboratory. The QA laboratory shall retain the remaining samples for referee testing, if required.

2502.08.03 Acceptance

The material shall be deemed acceptable if all the test results meet all applicable requirements of this specification.

Material that fails to meet the gradation requirements according to ASTM D632 shall be rejected. The supplier shall remove all rejected material as directed.

QA test results for a sample that is not according to Table 2 shall be rejected. The supplier shall remove all rejected material as directed.

2502.08.04 Referee Testing

The supplier may invoke referee testing by submitting a written request to the Owner, within 5 Business Days following notification that the sample representing the material does not meet the requirements of this specification.

Referee testing shall be carried out according to ASTM E534.

The retained duplicate QA samples shall be used for referee testing.

All referee test results for a lot shall replace the respective QA tests for acceptance of the applicable lot and shall be binding on both the Owner and the supplier.

If a lot is not accepted based on the referee test results, then the supplier shall be responsible for the cost of the referee testing of that lot. If a lot is accepted based on the referee test results, the Owner shall bear the cost of the referee testing.

2502.09 OWNER PURCHASE OF MATERIAL

2502.09.01 Measurement and Payment

Sodium chloride shall be measured by mass in tonnes as specified in the purchase order.

When shipped in bulk, sodium chloride shall be weighed at the source of supply and the mass shall be substantiated by bills of lading in as many copies as the Owner may require.

Payment at the price specified in the purchase order shall be for the supply of the sodium chloride delivered to the destination on the date and time specified.

The cost of all testing except that performed in the Owner's designated laboratory, shall be included in the price.

TABLE 1
Testing Methods and Procedures

Property	Test Method	Min. Mass Required
Moisture content	ASTM D2216	500g
Sodium chloride content, dry mass basis	ASTM D632	500g
Insoluble matter, dry mass basis	ASTM E534	500g

TABLE 2
Sodium Chloride Chemical Composition, by Mass

Characteristic	Per Cent
Moisture content	not more than 1.5
Sodium chloride content, dry mass basis	not less than 95.0
Insoluble matter, dry mass basis	not more than 4.0