1. **SCOPE**

1.1. **Description of Test**

This method describes the procedure for determining the insoluble matter content of sodium chloride granular.

1.2. **Application of Test**

This test procedure is used to determine whether or not the insoluble matter content meets the specification for manufactured material SMM 602-1.

2. **APPARATUS AND MATERIALS**

2.1. **Equipment**

Balance - 0.01 g accuracy.

Drying Oven - capable of 110\(^\circ\) C.

Container - pie plates or sauce pan.

Sieve - 71 mm.

3. **PROCEDURE**

3.1. **Sample Preparation**

Obtain sample from moisture content as per STP 209-11.

3.2. **Test Procedure**

Place sample in pie plate or sauce pan and cover with water.

Allow sample to soak in water at room temperature for at least 30 minutes.

Wash sample over 71 mm sieve.
4. RESULTS AND CALCULATIONS

4.1. Calculations

The insoluble matter content of the sodium chloride granular is determined in a manner shown by the following example:

\[
\text{Insoluble Matter} = \frac{\text{weight of residue}}{\text{weight of dry sodium chloride}} \times 100
\]

4.2. Reporting Results

Report Insoluble Matter content of sodium chloride granular in percent on form MR-21 as shown on Figure 209-12-1.
SPECIFICATION FOR GRANULAR SODIUM CHLORIDE

ADMIT. NO. ___________ SUBMITTED BY ______________________ LOCATION ___________

PRESUMED SALT TYPE (FINE, COARSE, MIXED) ____________________ ANALYST __________

INVOICE NO. ________________

CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th>SOLUBLE CHLORIDES (MINIMUM)</th>
<th>SPECIFICATION</th>
<th>TEST RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>97.00%</td>
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</table>

<table>
<thead>
<tr>
<th>SODIUM CHLORIDE (MINIMUM)</th>
<th>SPECIFICATION</th>
<th>TEST RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>95.00%</td>
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<table>
<thead>
<tr>
<th>INSOLUBLE MATTER (MAXIMUM)</th>
<th>SPECIFICATION</th>
<th>TEST RESULT</th>
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<tbody>
<tr>
<td>2%</td>
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<table>
<thead>
<tr>
<th>MOISTURE CONTENT (MAXIMUM)</th>
<th>SPECIFICATION</th>
<th>TEST RESULT</th>
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<tr>
<td>0.50%</td>
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GRADATION

<table>
<thead>
<tr>
<th>SIEVE SIZE</th>
<th>PERCENT PASSING</th>
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<tbody>
<tr>
<td></td>
<td>TYPE I (FINE)</td>
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<tr>
<td></td>
<td>SPEC TEST RESULT</td>
</tr>
<tr>
<td>12.50mm</td>
<td>100</td>
</tr>
<tr>
<td>9.00mm</td>
<td>100</td>
</tr>
<tr>
<td>5.00mm</td>
<td>100</td>
</tr>
<tr>
<td>2.00mm</td>
<td>85-100</td>
</tr>
<tr>
<td>900μm</td>
<td>60-100</td>
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<tr>
<td>400μm</td>
<td>25-90</td>
</tr>
<tr>
<td>71μm</td>
<td>0-10</td>
</tr>
</tbody>
</table>

REMARKS

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

REPORT SENT TO ______________________ LAB SUPERVISOR ______________________

DATE ________________

FIGURE 209-12-1
New ___ Revision ___X___ Date of Previous Document 89-11-16
Effective Date: ___-___

Description of Revision (Reason for Revision):
- Format of test procedure updated.

Review/Implementation Process:
- Reviewed by the Materials Section of the Technical Standards and Policies Branch.

Other Manuals/Policies Affected:
Nil

Follow Up/Training Required:
Nil

Comments/Concerns/Implications (Budget/Environment/Stakeholders):

Prepared and Recommended by  D. MacLeod 92-05-15
Date

Approval Recommended by  R.A. Widger  ___-___
Senior Materials Engineer  Date

Approval Recommended by  A.R. Gerbrandt  ___-___
Dir., Technical Standards & Policies Br.  Date

Approved by  D.G. Metz  ___-___
Assistant Deputy Minister, Infrastructure  Date

Electronic File Updated  ___-___
Update Mailed  ___-___