

2106 Treated Salt - Liquid Treating Agent Content (gallons / ton)

2106.1 Sample Preparation

Use working solution prepared from 2105.1 Section 5

2106.2 Testing - Magnesium Chloride Content by Atomic Absorption
(PNS Test Method A - modified)

Follow the Pacific Northwest Snow Fighters Test Method A with exception of Section V – Solution A of the sample preparation and Section VII – Calculations. In this case Solution A is the working solution prepared in Step 5 of 2104.4 above. Calculations for the gallons/ton in treated rock salt are found below.

2106.3 Calculation

$$\% \text{MgCl}_2 = \frac{0.3917 * \text{ppm Mg by AA}}{\text{sample weight}}$$

$$\text{gallons / ton} = \frac{2000}{100 - \frac{\% \text{MgCl}_2}{0.24}} - 2000$$

$$\frac{2000}{100} = 10.85$$

Note 1: 0.24 represents 24% MgCl₂ in the treating liquid (Spec. Min.)

Note 2: 10.85 represents lbs / gallon for the treating liquid (SpG of 1.300)

These assumptions can be changed if actual data is available.