



INDEPENDENT SALT Company

Technical Information for Highway Grade Deicing Salt

Independent Salt Company began operation in 1913. We mine a 15-foot seam of salt 850 feet below ground. Extraction methods have been modernized over the years, but the salt we are mining remains unchanged. We offer Highway Grade Ice Control Salt in both **Bulk** and **50-pound plastic bags** which are stretch wrapped and palletized.

ASTM Compliance

This product will meet the requirements for Type 1 Grade 1 Sodium Chloride as set out by the American Society for Testing and Materials.

Description

Our Highway Grade salt is a translucent grey to white color. The appearance would be nearly identical to Rock Salt purchased to make home-made ice cream. The salt will contain a mix of sizes that meet the ASTM requirements for Type 1 Grade 1 deicing salt.



Uses

Highway Grade deicing salt is intended to melt ice and snow on roadways, parking lots, sidewalks, and anywhere else where ice control is needed.

Effectiveness

Sodium chloride melts ice at temperatures down to its eutectic point of -6°F (-21°C). The important variable is not the air temperature in this case, but the pavement temperature. Depending on whether the storm occurs early in the season or at the end of a particularly cold period, the pavement may be warmer or colder than the air, but even in the dead of winter, pavements are more often warmer than the air. Most snowstorms occur when the air temperature is between 20°F (-7°C) and 32°F (0°C), the temperature range where salt is very effective.

Typical Chemical Analysis	
Sodium Chloride	95 to 97%
Calcium Chloride	0 to 1%
Magnesium	0 to .50%
Calcium Sulfate	0 to 1.5%
Magnesium Chloride	0 to 1%

Typical Sieve Analysis			
Mesh	Opening Inches	Typical % Passing	ASTM Requirements
1/8	0.500	100%	100% Minimum
3/8	0.375	98%	95-100%
4	0.187	82%	20-90%
8	0.0937	22%	10-60%
30	0.0232	10%	15% Maximum

Anti-Caking Agent

Yellow Prussiate of Soda (YPS) is usually added at approximately 200 parts per million (ppm). Yellow Prussiate of Soda is Sodium ferrocyanide in its hydrous form (which means Sodium ferrocyanide with water). It is added to road and food grade salt as an anticaking agent. YPS can be adjusted or eliminated at customer's request.