

Select Plus Water Conditioning Rock Salt Ojibway, Ontario



PDS III-03
1/97
R-01

Description

Rock Salt from Ojibway, Ontario is direct-mined production of mineral Sodium Chloride. The salt is produced from an underground bedded deposit by blasting with explosives followed by crushing and screening operations.

Crushed rock salt particles are multifaceted and somewhat rectangular in shape. The appearance is translucent to white and has been processed through an optical sorter to reduce the level of rock and calcium sulfate particles and improve purity.

Chemical Properties

Rock salt contains in excess of 20 elemental impurities, but routine standard salt analyses measure only calcium, magnesium, sulfate and water insolubles. The major impurity is anhydrite, the anhydrous form of calcium sulfate. Anhydrite is very slow dissolving, tending to accumulate as a gritty, sandy residue in bedded, downflow brinemaking systems. A portion of the anhydrite will be assayed as water insolubles. The true water insolubles present consist of traces of silica, and dolomite (CaMg(CO₃)₂).

Chemical analysis, moisture-free basis is as follows:

	Typical	Range
*Sodium Chloride (%)	99.4	99.1 - 99.5
Calcium Sulfate (%)	0.5	0.3 - 0.80
Calcium Chloride (%)	0.10	0.05 - 0.15
Magnesium Chloride (%)	0.10	0.01 - 0.12
Water Insolubles (%)	0.03	0.01 - 0.06
Moisture (%)	0.1	0.05 - 0.4

**By difference of impurities, moisture-free basis (ASTM procedure).*

Producing Mines

Ojibway, ON

Physical Properties

Pour (loose) bulk density is 1150 - 1200 kg/m³ (72 - 75 lb/ft³).

Sieve Analysis

U.S. Mesh	Opening (mm)	Cumulative Percent Passing*	
		Typical	Range
0.500 in	12.7	99	98 - 100
0.375 in	9.51	41	33 - 49
4	4.76	4	0 - 8
8	2.38	2	0 - 4
16	1.19	1	0 - 2
30	0.598	1	0 - 2

**On individual screens*

Codes

	Commodity	UPC
20 kg bags	5033	0 66010 05033 6
40 kg bags	5035	0 66010 05035 0

Packaging

20 kg net weight, 6 mil polyethylene bags.

40 kg net weight, 6 mil polyethylene bags.

Unit Dimensions			
Code	Gross Wt (kg)	L x W x H (cm)	Cube (m ³)
5033	20.2	53 x 30 x 13	0.019
5035	40.3	56 x 40.5 x 15	.034
Palletized*			
Code	Units per Pallet	Gross Wt (kg)	Cube (m ³)
5033	56	1180	1.28
5035	30	1260	1.28

**Includes standard 122 cm x 102 cm wood pallets.*

The Canadian Salt Company Limited

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