Salt Brine and Rock Salt Statistics

FREEZING POINT OF SALT BRINE BY PERCENT OF WEIGHT

% of NaCl by Weight	Spec. Gravity 15° C - 59° F	Freeze Point °C	Freeze Point °F
0	1.000	0.00	32.0
1	1.007	-0.58	31.0
2	1.014	-1.13	30.0
3	1.021	-1.72	28.9
4	1.028	-2.35	27.8
5	1.035	-2.97	26.7
6	1.043	-3.63	25.5
7	1.051	-4.32	24.2
8	1.069	-5.03	22.9
9	1.027	-5.77	21.6
10	1.074	-6.54	20.2
11	1.082	-7.34	18.8
12	1.089	-8.17	17.3
13	1.097	-9.03	15.7
14	1.104	-9.94	14.1
15	1.112	-10.88	12.4
16	1.119	-11.90	10.6
17	1.127	-12.93	8.7
18	1.135	-14.03	6.7
19	1.143	-15.21	4.6
20	1.152	-16.46	2.4
21	1.159	-17.78	0.0
22	1.168	-19.19	-2.5
23	1.176	-20.69	-5.2
23.3 (E)	1.179	-21.13	-6.0
24	1.184	-17.00	-1.4
25	1.193	-10.40	13.3
26	1.201	-2.30	27.9
26.3 (S)	1.203	-0.00	32.00

STATISTICS

Salt brine eutectic 23.3% at 59° F
Salt brine specific gravity at 23.3% 59° F is 1.179
Pounds of salt per gallon of brine 2.28lbs at 23.3% 59° F
Salt weight per cubic foot ASTM spec D 632 approx 80 lbs
Salt weight per cubic yard ASTM spec D 632 approx 2,160 lbs

POUNDS OF ICE MELT PER POUND OF SALT

Temperature Degrees °F	One Pound of Sodium Chloride (Salt)
30	46.3 lbs of ice
25	14.4 lbs of ice
20	8.6 lbs of ice
15	6.3 lbs of ice
10	4.9 lbs of ice
5	4.1 lbs of ice
0	3.7 lbs of ice
-6	3.2 lbs of ice

E = Eutectic Point:

The percent of weight which a chemical solution has the lowest freeze point.

S = Saturation Point:

The point which water will receive no more of another substance in a solution.