

Straight Salt Application

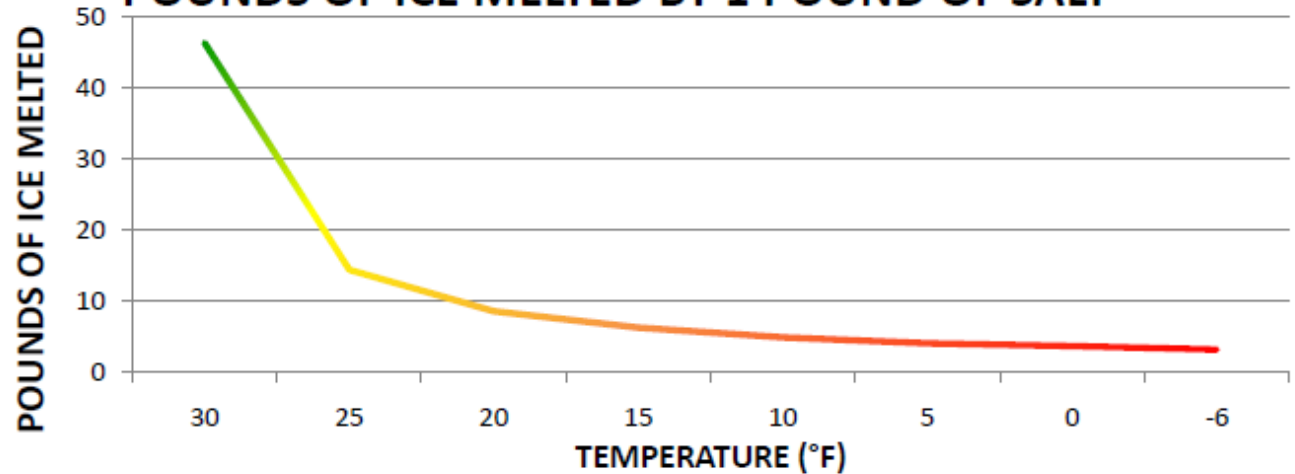


Ice Melting Power of Salt

**Pounds of Ice Melted
by 1 Pound of Salt**

°F	lbs of Ice
30	46.3
25	14.4
20	8.6
15	6.3
10	4.9
5	4.1
0	3.7
-6	3.2

POUNDS OF ICE MELTED BY 1 POUND OF SALT



Freezing Point of Salt Brine

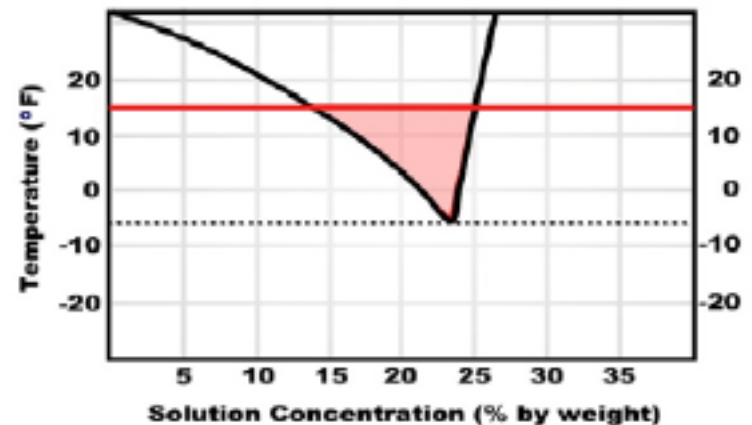
Pavement temperature is 30 degrees -

Salt will work to melt snow or ice when the concentration is as low as about 3% and as high as 27% (the shaded blue zone). At this temperature, the salt can be diluted a lot by melting or additional precipitation and **still** continue to work.



Pavement temperature is 15 degrees -

At lower temperatures, a much narrower range of concentrations will work to melt snow or ice. The concentration needs to stay between about 13% and 23% (the red shaded zone). Additional precipitation or melting will dilute the chemicals to a point where they are no longer effective more rapidly than at higher temperatures.



How Far Can a Truck Go?

Mix Ratio			Distance Traveled (lane miles) per 10 CY Truck Load			
%	Part Sand	Part Salt	100 lb/ln mi	200 lb/ln mi	300 lb/ln mi	400 lb/ln mi
100%	Straight Salt		220	110	73	55
50/50	1	1	110	55	37	28
66/33	2	1	73	37	24	18
75/25	3	1	55	28	18	14
80/20	4	1	44	22	15	11
83/17	5	1	37	18	12	9
86/14	6	1	31	16	10	8
88/12	7	1	28	14	9	7
89/11	8	1	24	12	8	6
90/10	9	1	22	11	7	6
91/9	10	1	20	10	7	5

How Far Can a Truck Go?

Lane Miles Treated With One 10 CY Truck Load @ 100 and 200 lb of Salt/Lane Mile

