

**Calcium Treated Salt (CTS)** has been utilized by road authorities for more than 50 years to enhance the performance of salt and sand stockpiles. Basic rock salt fully coated with liquid calcium chloride produces a high-performance deicer with all the advantages of pre-wetting and more!

## Advantages:

- Accelerated melting action
- 30% LESS bounce & scatter
- Free-flowing stockpiles
- Low temperature performance
- Reduced cost per lane mile
- Use less = Save more



Treating a salt pile with 6-10 gallons of calcium chloride per ton of salt (25-40 liters/MT) greatly enhances the performance of the salt, especially at colder temperatures when regular salt does not have the ability to brine.

As a treatment for sand, 4-6 gallons of calcium chloride per ton of sand (15-25 liters/MT) is recommended. This application allows the sand to “bite” into the ice or snowpack greatly reducing the bounce and scatter experienced with dry sand.

## Enhancements:

There are a number of commercially available enhancements for calcium chloride stockpile treatment fluids:

- Corrosion inhibitors (Protect equipment and infrastructure)
- Viscosity modifiers (Prevent leaching, improve residual performance)
- Biodegradable colorants (Increase melting speed and provide coverage indication)





## Residual Effect:

Residual effect occurs when a material stays in the pores of pavement awaiting the next storm, unlike dry salts that remain on the surface to be ground up or blown away by traffic.

## Science Proves It!

An Ontario Ministry of Transport study concluded that a prewetting agent containing calcium chloride was “much more effective than magnesium and sodium chloride brines”. Calcium chloride outperformed magnesium chloride by up to 71.4% in terms of reduction in average snow cover providing higher overall levels of service regardless of salt rate or pre-wetting ratio.

- Hygroscopic and deliquescent, calcium chloride absorbs moisture from the air to keep a stockpile wet and free flowing. Calcium chloride also has a low vapor pressure allowing it to resist evaporation while maintaining optimum moisture content.
- Unsurpassed freezing point ( $-60^{\circ}\text{F}$  /  $-51^{\circ}\text{C}$  for 30% calcium chloride)

## Bottom Line:

- **CTS** is pre-mixed for a precise, evenly blended product (no special equipment required).
- Road maintenance personnel can avoid the hassle and expense of liquid deicers.
- Some viscosity modifiers include corrosion inhibition, translating into longer truck, equipment and roadway hardware life.
- The need for sand and sand clean-up is reduced or eliminated.
- One product equates to less inventory to carry.
- Customers experience improved service levels.



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