

## Description

Common formate-based deicers include potassium formate (KFm) and sodium formate (NaFm). Formate-based deicers are similar to acetates and are commonly used at airports. Formate-based deicers are effective above temperatures of -25°F, however they can be costly.

### Pros



- Low effective temperature
- Fast acting

### Cons

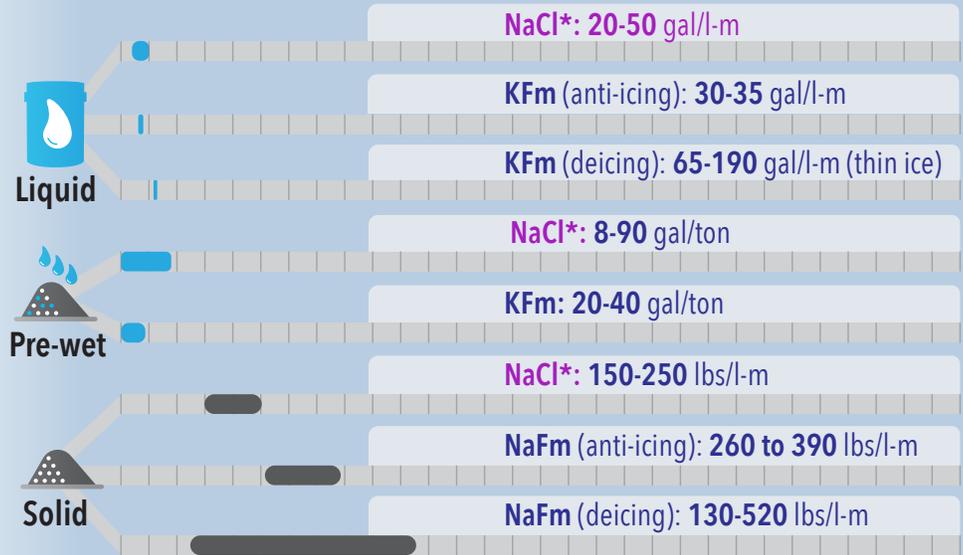


- Expensive
- Corrosive to galvanized steel

### Effective temperature °F



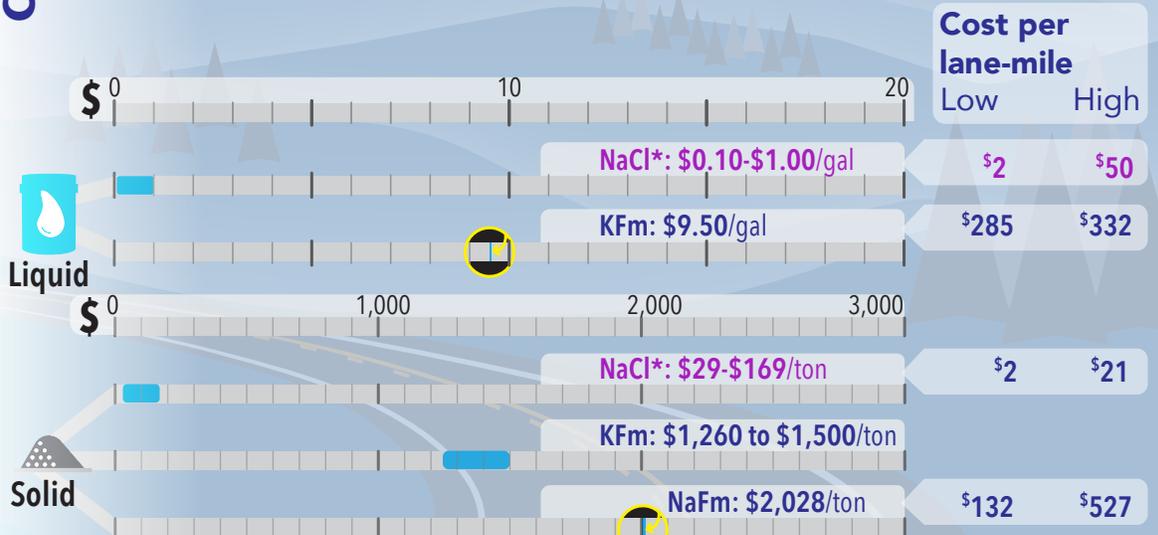
### Application Rate

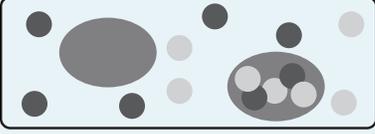
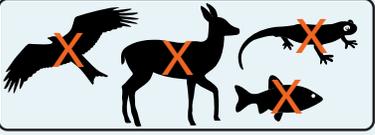


### Eutectic temperature °F



### Cost



	Impacts	NaCl*	KFm	NaFm
	<b>BOD COD</b>	Low	Low to Moderate	Low to Moderate
	<b>Ecological Toxicity</b>	Low to Moderate	Moderate	Moderate
	<b>Asphalt Pavements</b>	Low to Moderate	Low to Moderate	Low to Moderate
	<b>Concrete Pavements</b>	High	Moderate	Moderate
	<b>Mild Steel Corrosion</b>	High	Low	Low
	<b>Galvanized Steel Corrosion</b>	High	High	High

## Storage and Handling

- All equipment surfaces that are frequently exposed to deicing products should be routinely rinsed with warm water to prevent accumulation.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- All liquids should be stored with secondary containment.
- All solids should be stored on non-permeable surfaces and covered from the elements.



\* **NaCl** is included as a reference for comparison to the non-chloride deicers in this data sheet.