

# Ice Free Conveyor<sup>®</sup>: Technical Information

Winter  
Operating  
Agent

## DESCRIPTION



Ice Free Conveyor is a multi-component glycol based liquid belt anti-icing and deicing agent. Ice Free Conveyor was developed for the extremes in conveyor belt operations: cold temperatures, high coal moisture content, old or worn belts, steep inclines. It eliminates coal and material handling problems caused by ice glazing and fines build-up on conveyor belts.

## APPLICATIONS



Ice Free Conveyor can be sprayed on top of the conveyor belt to prevent ice glaze and snow build-up. Application of Ice Free Conveyor to tail pulleys, the bottom cover, or trough idlers can prevent ice build-up caused by precipitation or moisture from the coal. Ice Free Conveyor should be applied prior to shut-down to prevent ice formation. Application at start-up or during operation can speed removal of ice and prevent further accumulation.

## PHYSICAL PROPERTIES

<b>Specific Gravity:</b>	1.10 – 1.12 Kg/L
<b>Weight per Gallon (US):</b>	9.16 – 9.33 lb./gal
<b>Appearance:</b>	Greenish brown liquid
<b>Odor:</b>	Slight sweet odor
<b>pH:</b>	9 - 10
<b>Freezing Point:</b>	< -50°F
<b>Solubility in Water:</b>	Complete
<b>OSHA Hazard:</b>	Toxic
<b>Flammability:</b>	Non-flammable, non-combustible
<b>Stability:</b>	Stable under normal handling conditions
<b>Corrosiveness:</b>	Non-corrosive
<b>Incompatibilities:</b>	Strong oxidizing materials

# Ice Free Conveyor®: Frequently Asked Questions

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## What is Ice Free Conveyor®?

Ice Free Conveyor is a conveyor belt anti-icer and deicer that enables you to maintain operations in extreme conditions of cold weather or when coal contains moisture. It is the only conveyor belt deicer formulated with special ingredients to produce belt cover friction so belts will carry coal when "hard-as-a-board." Only Ice Free Conveyor helps or stops backslides that are the result of belt hardening. This starts at 20°F and gets worse as the temperature falls.

## How long does Ice Free Conveyor last?

Ice Free Conveyor is formulated to outlast all other materials because of its powerful active ingredients. These ingredients combat everything that conveyor systems are subjected to by nature especially cold winter weather and the coal handling process. The hardness of the belt must also be taken into consideration. We offer Durometer testing to determine the hardness of the belt.

## How much does Ice Free Conveyor cost?

A Midwest Sales Representative can give you current pricing and availability by calling 1-800-321-0699 x125 or email [custserv@midwestind.com](mailto:custserv@midwestind.com).

## How much Ice Free Conveyor do you have to use?

Spray the conveyor belt(s) with Ice Free Conveyor one complete revolution (spraying at rate of 1 gal/minute). This is all that is needed each time you apply Ice Free Conveyor winter operation agent. Do not "flood" belt, a light spray is all that is required. Frequency of application is determined by operating conditions, temperature and moisture.

## How do you apply Ice Free Conveyor?

Midwest recommends installing our Cobra™ Winter Spray Systems. They are low-pressure systems that utilize special spray header design and placement to prevent any of the product from becoming airborne. There are three types of Cobra Winter Spray Systems designed to meet your specific needs:

- **COBRA Auto-Spray System** - Is programmed to turn on automatically and will spray the top cover, bottom cover or both simultaneously. It will then turn itself off and is ready for the next pre-programmed spraying cycle.
- **COBRA "Press and Go" Spray System** - Just press START and walk away; the system will spray for a pre-set time and then turn itself off.
- **COBRA Manual Spray System** - Turned on and off manually using a toggle switch located on the unit.

## Is Ice Free Conveyor conductive?

No, it is not conductive.

## Is Ice Free Conveyor corrosive?

No, it is non-corrosive.

## How often should Ice Free Conveyor be applied?

Your application frequency will vary on the weather activity, belt hardness and moisture in the material (fuel). Belt hardness testing is available upon request.

## Is Ice Free Conveyor biodegradable?

Yes, it will biodegrade.

## Is Ice Free Conveyor flammable?

No, it is not flammable as it does not contain any alcohols or methanol.

## What is the shelf life of Ice Free Conveyor?

As a company policy we normally recommend using the product within a year, but this product will not separate or settle and would be fine beyond the one year recommendation so it could be used from a previous winter. (\*must be stored in a closed or unopened container).

## How is Ice Free Conveyor packaged?

Ice Free Conveyor is available in 5-gallon plastic pails, 55-gallon plastic drums, 275-gallon steel-caged totes and bulk truckloads of 1,000 gallons and up.