

Ice Free Conveyor® Winter Operating Agent

Never Worry About Severe Winter Weather Threatening Peak Operations

Ice Free Conveyor is Midwest's original product developed for coal handlers to eliminate conveyor problems caused by snow, moisture, freezing and sub-zero temperatures. Ice Free Conveyor recognizes and deals with the specific nature and unique problems of your conveyor system. Each year we have improved Ice Free Conveyor using the valuable feedback we have received from our customers. All this combines to make Ice Free Conveyor Winter Operating Agent the best product available on the market today to keep you running smoothly during severe winter weather.



Effective temperature range

Ice Free Conveyor prevents belt icing, removes ice glaze and prevents and removes build-up on idlers and pulleys to -70°F. Other materials stop or begin to lose effectiveness between 0° and -10°F.

Produces cover friction

Ice Free Conveyor is the only product formulated with ingredients that, when sprayed lightly, will produce belt cover friction — so belts will carry coal even when extremely hard. Only Ice Free Conveyor helps to stop backslides that are the result of belt hardening that starts at 20°F and gets worse as the temperature falls. The more difficult the conditions, the more valuable Ice Free Conveyor is to you.

Longest Lasting

Ice Free Conveyor is formulated to outlast all other materials because of its powerful active ingredients. They combat everything that conveyor systems are subjected to by nature and the coal handling process.

Minimizes Carry-Back

Ice Free Conveyor is the only product formulated to prevent or minimize fines carry-back and build-up on belts, idlers and pulleys that are major causes of winter systems problems.

Uses Less Material

Ice Free Conveyor, used as an anti-icer, outperforms other types of anti-icers within their temperature range using less material. Spray Ice Free Conveyor at a rate of one gallon per minute for one complete revolution. It results in less oversprays and less puddles.

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

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

Ice Free Conveyor excels when used in extreme conditions:

- *Extremely wet coal*
- *Extreme cold weather*
- *Extreme precipitation*
- *Extreme angle of belts*
- *Extremely old, hardened, weathered belts*