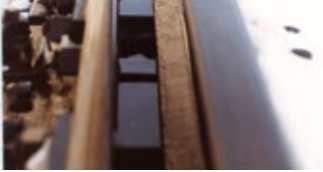


Ice Free Switch®: Technical Sheet

Winter
Operating
Switch
Agent

PRODUCT DESCRIPTION



Ice Free Switch is an anti-icing agent used to prevent switch freezing from falling and blowing snow and icing conditions. When applied to switch points, plates and rail prior to snow or ice storms, it will remain in place to activate when needed to melt falling and blowing snow and prevent switches from freezing.

PERFORMANCE



Ice Free Switch incorporates technology Midwest has licensed through NASA/ AMES Research Institute called Zero Gravity "smart fluid." When a small amount of product is poured or sprayed onto the switch components it produces a thin film. Its viscosity reverts to high "zero" shear or static viscosity which enables it to stay in place. It remains in place to be triggered hours, days or weeks later by sleet, rain or snow. It prevents moisture from becoming ice on the switch plate area, especially in remote areas or switches unprotected by other methods.

BENEFITS



- Works better in severe temperatures
- Prevents re-freezing down to -70°F
- Defies effects of rain, snow, wind & gravity
- Holds fast to surfaces & remains in place
- Prevents snow from packing between rails
- Helps prevent derailment at flangeways
- Safe to use/environmentally friendly
- Non-flammable/non-corrosive
- Throw switches on command

APPLICATION

Ice Free Switch is applied prior to a winter storm event to prevent ice from building up and snow accumulating on switch plates or rails.

PHYSICAL PROPERTIES

Vapor Pressure mm Hg @ 20°C:	<0.01
General Appearance:	Green Liquid
Primary Composition:	Diethylene & Propylene Glycol
pH:	7