

Zero Gravity Ice Barrier[®]: Technical Information

Power
Line
Anti-Icing
Agent

DESCRIPTION



Zero Gravity Ice Barrier is specially formulated non-conductive, and non-corrosive anti-icing agent for catenary power systems. Formulated using “smart fluid” technology, Zero Gravity is licensed from NASA/AMES Research, it is easily sprayed onto overhead wires. This same liquid transforms into an extremely resilient film that will stay in place even on vertical surfaces. It’s not easily washed off the wire with snow or rain and it will retain its anti-icing properties.

APPLICATIONS



Zero Gravity Ice Barrier is a winter operating agent designed for anti-icing overhead wire. It is applied prior to and during winter storm events to prevent ice formation on the wire. It is applied by a sprayer suitable for use around high voltage locations and is a higher viscosity material yet is very fluid during applications. The application also protects wires from heavy weight loads due to snow or ice build-up, reducing stress on hangers and connectors. Wire damage is prevented since ice scraper shoes are not required in conjunction with this application. When “at rest” on the wire, it regains its high viscosity and becomes gel-like to remain in place on vertical surfaces. It’s also effective in removing ice glaze from wires when applied directly onto ice.

PHYSICAL PROPERTIES

Specific Gravity:	1.04 - 1.08 (Kg/Liter)
Weight Per Gallon (US):	8.66 - 9.00 (Lbs/Gal) (US)
Appearance:	Viscous, orange tinted liquid
Odor:	Slight
pH:	7
Freezing Point:	
Incompatibilities:	Strong oxidizing materials
Flammability:	Non-flammable, non-combustible
Stability:	Stable (under normal handling conditions)
Corrosiveness:	Non-corrosive
Pour Point:	< -40°F
Viscosity (68°F):	150 - 200 cps
Viscosity (-20°F):	600 - 850 cps