

Technical Sheet-Material Compatibility



CORROSION INHIBITORS:

Alpine Ice Melt contains a proprietary corrosion inhibitor package to improve its compatibility with copper, brass, aluminum, aluminum alloys, zinc and other metals and alloys. The corrosion inhibitors work by forming a protective barrier between the metal and the potassium acetate solution.

EQUIPMENT CONSIDERATIONS:

All equipment surfaces that are frequently exposed to potassium acetate de-icers should be regularly rinsed with warm water (especially before and after the winter season) to prevent the build-up of residue and to minimize staining and maintain the equipment integrity.

Pumps: The preferred material is stainless steel. While the corrosion inhibitor package improves compatibility with brass, cast aluminum and cast iron, these materials should be avoided because of abrasion effects. Avoid pumps that contain zinc or galvanized wetted parts. The high abrasion effects combined with the reactivity of potassium acetate towards zinc will dissolve the galvanizing and expose the metal to agents which cause corrosion.

Pipes: Acceptable materials are stainless and carbon steel, polyethylene (PE), polypropylene (PP), polyvinyl chloride (PVC), polyvinylidene fluoride (PVDF), butyl and natural rubber. Minimize contact with zinc or galvanized metals. A high quality pipe sealant is important for threaded fittings and joints, however welded or flanged pipe joints are recommended.

Seals and Gaskets: Recommended materials are natural and butyl rubber, ethylene propylene rubber (EPR, EPM, EPDM) and isoprene. Neoprene and nitrile (Buna-N) rubbers are acceptable materials. Materials to avoid are: any type of silicon rubber, styrene butadiene (Buna-S), polyurethane, polyacrylate, fluorosilicone and fluorocarbon rubbers and butadiene.

STORAGE CONSIDERATIONS:

All tanks should be cleaned and maintained both before and after the winter season to maintain the integrity of the tank and minimize staining and deterioration.

Tanks: Stainless steel, fiberglass or polyethylene tanks are recommended. If clean and rust-free, alloy steel or carbon tanks may be used. While aluminum is acceptable in the presence of the corrosion inhibitor package, aluminum tanks should be avoided for long term storage. Ensure tanks are built to withstand potassium acetates high viscosity, high density and low surface tension.

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