Glycols

Burst-Kontr'l® AP-100

INHIBITED HEAT TRANSFER AND ANTI-FREEZE FLUID FOR SYSTEMS WITH ALUMINUM HEAT EXCHANGERS

- Provides burst protection to -100ºF and freeze protection to -60ºF
- Maximum corrosion protection for all metals; especially aluminum
- Non corrosive and nonflammable propylene glycol based fluid
- Formulated for optimum heat transfer and maximum fluid life
- Uses a blue dye for system leak detection

Description

Burst Kontr'l AP-100 is an inhibited heat transfer and antifreeze fluid formulated to current OEM guidelines of near neutral pH (6 to 8) with optimized corrosion inhibitors for the protection of closed loop systems containing aluminum heat exchangers. Burst Kontr'l AP-100 is a 60% propylene glycol based product and universally acceptable for use with other heat exchanger alloys or closed loop systems made of common materials of construction.

Premixed and ready-to-use. The formulated product provides maximum corrosion protection for common metals, including aluminum with a proven inhibitor chemistry. Burst-Kontr'l AP-100 is colored blue to aid in leak detection. It has an operating temperature range from -60˚F to 230˚F and solutions in water provide freeze protection from -60˚F and burst protection to -100˚F.

Packaging

5 gallon pail: **4187-15**

Application

Any residential, commercial or industrial closed loop water system where the water needs to be suppressed below its natural freezing point so the solution can continue to circulate or for the prevention of bursting pipes. Although Burst Kontr'l AP-100 is specially formulated for closed loop systems containing aluminum heat exchangers, the product has universal acceptability with other common alloys or metals used in chilled water closed loop applications. One notable exception - Nu-Calgon does not recommend the use of formulated glycol product with galvanized surfaces since the zinc coated surface can behave adversely with the corrosion inhibitors in the product. For maximum fluid life, never dilute Burst Kontr'l AP-100 with more than 50% high quality water in a closed loop system.

Read and understand the product's label and Safety Data Sheet ("SDS") for precautionary and first aid information. The SDS is available on the Nu-Calgon website at www.nucalgon.com.

Corrosion Test Results of Burst-Kontr'l AP-100 per ASTM 1384

	Material Weight Loss (mg)		Material Corrosion Weight Loss (mg/cm²)	
	Sample Average	Maximum[1]	Sample Average	Maximum[2]
Copper	0	10	0.02	0.15
Solder	0	30	0.01	0.3
Brass	0	10	0.01	0.15
Steel	2	10	0.05	0.15
Cast Iron	1	10	0.02	0.15
Cast Aluminum	0	30	-0.01	0.3

[1]Maximum corrosion weight loss as specified by ASTM D3306. [2]Maximum corrosion as specified by JIS K2234 type "B"

Dilution Chart

Percent Volume of Burst-Kontr'l AP -100	Freeze Protection	Burst Protection
100%	-60ºF	-100ºF
90%	-41ºF	-95ºF
85%	-31ºF	-90ºF
80%	-23ºF	-83ºF
75%	-17ºF	-80ºF
70%	-10ºF	-73ºF
65%	-5ºF	-62ºF
60%	1ºF	-52ºF
55%	5ºF	-38ºF
50%	9ºF	-25ºF