



# Sub-Zero ACP™

Antifreeze & Coolant Premixed with Deionized Water

Sub-Zero ACP is an MEG based coolant premixed with DI-H<sub>2</sub>O for optimal heat transfer efficiency and corrosion protection.

Sub-Zero ACP is formulated with NoPit™ inhibitors to achieve the desired pH, reserve alkalinity, and to establish a uniform protective film on the metal surface which reduces the electrical potential that exists when dissimilar metals are connected in an electrolyte.

Sub-Zero ACP is preblended with deionized water to insure optimal corrosion protection and heat transfer efficiency. Note: impurities in tap water increase the electrical conductivity "hardness" of the water and make it more corrosive. The Calcium and Magnesium cations found in tap water tend to precipitate and build-up on critical heat transfer surfaces, thereby reducing heat transfer efficiency while increasing the potential for under-deposit corrosion. Other impurities in tap water such as Chloride and Sulfate ions can break down the inhibitors and increase the potential for general or localized corrosion. Only deionized water should be used for dilution purposes or system make-up. Deionized water is chemically pure and essentially free of all hard water minerals and corrosive ions. Using deionized water for dilution purposes dramatically improves the overall performance of Sub-Zero ACP.

Note: when make-up water is added to the cooling system, the glycol concentration and inhibitor levels can be reduced to an unsafe level. Therefore, we highly recommend that you only add Sub-Zero ACP whenever make-up fluid is required.

## Product specifications:

MEG - wt%	>45 <55
pH	> 8.0
RA (alkalinity)	> 5.0
NO <sub>3</sub> ppm	> 500
BO <sub>3</sub> , ppm	> 500
PO <sub>4</sub> ppm	> 500
MoO <sub>4</sub> , ppm	> 500
NO <sub>2</sub> , ppm	> 500
SiO <sub>2</sub> ppm	< 1



Inhibitor Testing Procedures: Test kits and test strips are commercially available to check the coolant for proper concentration and inhibitor levels. The coolant should be tested at least once a year by a qualified laboratory to ensure the fluid meets all conditions necessary for optimum heat transfer efficiency and corrosion protection.

## Properties: aqueous solutions of Sub-Zero ACP

Volume %	Freeze Pt. °F	Burst Pt. °F	Boiling Pt. °F
25	9	-5	217
30	3	-15	218
35	- 4	-30	219
40	- 13	-65	221
45	- 24	- 100	223
50	- 34	< - 100	225
55	- 52	< -100	227
60	- 70	< -100	231

- ✓ **Longer life means fewer coolant changes.**
- ✓ **Excellent freeze, burst, and boil-over protection.**
- ✓ **Engineered to protect against liner damage.**
- ✓ **Additives prevent cooling system corrosion.**
- ✓ **Compatible with cooling system hose and seals.**
- ✓ **No silicates used...means no silica gel build-up.**
- ✓ **Premixed with deionized water.**
- ✓ **Fluorescent dye for easy leak detection.**
- ✓ **Can be color coordinated with your existing coolant.**
- ✓ **Sub-Zero ACP-50 protects all metals including aluminum.**
- ✓ **A performance product of unparalleled quality & value.**