

## SUBCHAPTER 09F - INTERNAL COMBUSTION ENGINE ANTIFREEZES

### SECTION .0100 - SPECIFICATIONS FOR ETHYLENE GLYCOL BASE ENGINE COOLANTS

#### 02 NCAC 09F .0101 GENERAL

- (a) Ethylene glycol base engine coolant concentrate, when used at 40 to 70 percent concentration in water, functions effectively during both winter and summer in automotive vehicle cooling systems to provide protection against freezing, boiling and corrosion.
- (b) Ethylene glycol base engine coolant concentrate shall consist of ethylene glycol and shall contain corrosion inhibitors, a foam suppressor, and sufficient water to dissolve the additives and to provide a packaged product that can be poured at temperatures as low as zero degrees Fahrenheit (-17.8 degrees C). Other glycols such as propylene and diethylene may be included up to a maximum of 15 percent if the chemical and physical properties referenced in Rules .0102 and .0103 of this Section are met.
- (c) The product when installed in accordance with the vehicle manufacturers' recommendations and those on the product label shall not adversely affect fluid flow and heat transferred where used in a properly maintained cooling system in normal passenger car service, as defined in the vehicle owner's manual, for a minimum of one year.

*History Note:* Authority G.S. 106-579.7;  
Eff. February 1, 1976;  
Amended Eff. May 1, 2013;  
Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. March 22, 2015.