

**TITLE 165. CORPORATION COMMISSION  
CHAPTER 16. ANTIFREEZE  
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Appendix A. TESTING OF ETHYLENE GLYCOL ANTIFREEZE

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[**Authority:** 47 O.S., §§ 461 et seq.]

[**Source:** Codified 6-25-92]

## SUBCHAPTER 1. GENERAL PROVISIONS

### 165:16-1-1. Purpose

The purpose of this Chapter is to implement the provisions of 17 O.S. § 301 et seq., regarding the sale of antifreeze in the State of Oklahoma.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 34 Ok Reg 929, eff 9-11-17; Amended at 36 Ok Reg 544, eff 8-1-19]

### 165:16-1-2. Definitions

In addition to the terms defined in 17 O.S. §§ 303 and 348, the following words or terms, when used in this Chapter, shall have the following meaning unless the context clearly indicates otherwise:

**"Antifreeze"** means all substances and preparations intended for use as the cooling medium, or to be added to the cooling liquid, in the cooling system of an internal combustion engine to prevent freezing or to raise the boiling point.

**"Certified"** means to attest that the analysis is as represented and meets the required standards of this Chapter.

**"Commission"** means the Oklahoma Corporation Commission and includes its designated divisions, departments, agents or representatives.

**"Ethylene glycol antifreeze"** means an antifreeze containing ethylene glycol as the major component.

**"Licensee"** means the name and address of the person who is distributing, manufacturing, marketing, producing, selling or transporting antifreeze under a specific brand name.

**"Manufacturer"** means any person engaged in the manufacture of any antifreeze sold, offered for sale, displayed, distributed, produced, used, or consumed in the State of Oklahoma.

**"Methanol"** means an antifreeze with an alcohol base.

**"Person"** means any and all persons, including any individual, firm, partnership, corporation, company, trust, LLC, LLP, and association, whether such persons are acting as owner, bailee, or agent.

**"Propylene glycol antifreeze"** means an antifreeze containing propylene glycol as the major component.

**"Prediluted aqueous ethylene glycol"** means an antifreeze containing a 50 volume percent aqueous solution.

**"PSTD"** means the Petroleum Storage Tank Division.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 14 Ok Reg 2494, eff 7-1-97; Amended at 34 Ok Reg 929, eff 9-11-17; Amended at 36 Ok Reg 544, eff 8-1-19]

### 165:16-1-3. Applicability

This Chapter shall apply to persons who display, distribute, manufacture, market, produce, store, transport, warehouse, sell, offer for sale or resale antifreeze of any brand or type in the State of Oklahoma. This Chapter does not apply to antifreeze used in manufacturing processes and consumptive use on the premises.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 34 Ok Reg 929, eff 9-11-17]

#### **165:16-1-4. Authority of the Commission**

In addition to other authority prescribed by law, the Commission shall have the authority to:

- (1) Enforce this Chapter by licensing, inspections, chemical analysis, or any other appropriate methods.
- (2) Call upon and take samples of antifreeze from the stocks of any applicant for or any holder of an antifreeze permit or any other persons suspected of distributing, displaying, manufacturing, marketing, producing, selling, storing, or transporting antifreeze.
- (3) Access, by any means, all places of businesses of such persons, including buildings, vehicles, cars, and vessels used in the display, distribution, manufacturing, marketing, producing, sale, storage, or transporting of antifreeze during regular business hours.
- (4) Open, by any means, any box, carton, parcel, or package containing or supposed to contain antifreeze, take possession of a representative container signed by receipt, for the purpose of taking samples.
- (5) Require, request, and demand a bill of lading or other proof of delivery of antifreeze that on its face appears to be unlicensed.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 34 Ok Reg 929, eff 9-11-17]

### **SUBCHAPTER 3. APPLICATIONS AND PERMITS**

#### **165:16-3-1. General requirements**

Before any antifreeze can be displayed, distributed, manufactured, marketed, produced, sold, used and/or offered for sale or resale, held with intent to sell, or transported within the State of Oklahoma, a permit, bearing an official permit number shall be obtained by the manufacturer of the antifreeze from PSTD.

- (1) Application for antifreeze permits shall be submitted with certified laboratory analysis, copies of the labels, and the fee amount set forth in Chapter 5 of Commission rules per brand and per type. If PSTD has previously approved the formula, a new laboratory analysis is not needed.
- (2) If antifreeze meets the specifications and standards as set out in OAC 165:16-5-1, 165:16-5-2, 165:16-5-3 and 165:16-5-4 a permit shall be issued to the applicant authorizing the sale of such antifreeze until the end of the fiscal year, June 30.
- (3) Renewal invoices will be sent sixty (60) days before the fiscal year expires. The renewal fee amount set forth in Chapter 5 of Commission rules is per brand and per type. Licensees do not need to resubmit information on individual brands and types each year unless the formula, name of the brand or the type has changed.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 34 Ok Reg 929, eff 9-11-17; Amended at 36 Ok Reg 545, eff 8-1-19]

#### **165:16-3-2. Application for variance [REVOKED]**

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 34 Ok Reg 929, eff 9-11-17; Revoked at 36 Ok Reg 545, eff 8-1-19]

### **165:16-3-3. Cancellation of permit [REVOKED]**

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Revoked at 34 Ok Reg 929, eff 9-11-17]

## **SUBCHAPTER 5. TESTING OF ANTIFREEZE**

### **165:16-5-1. Testing of ethylene glycol antifreeze**

The American Society for Testing and Materials (ASTM) standard D3306 (2014) shall be used to make the following tests of antifreeze.

(1) **Boiling point test.** The boiling point of an antifreeze shall be determined by the ASTM designation D-1120 (2016) test. The boiling point of a concentrated antifreeze shall not be below 311°F or 155°C. When added to the cooling system of a motor vehicle, at atmospheric pressure, an antifreeze shall increase the boiling point to a degree not less than the following:

- (A) 50% antifreeze: 226° F or 108° C
- (B) 40% antifreeze: 221° F or 105° C
- (C) 33 1/3% antifreeze: 219° F or 104° C
- (D) 20% antifreeze: 214° F or 101° C

(2) **pH test.** The pH of an antifreeze shall be determined by the ASTM designation D-1287 (2011) test. The pH of an antifreeze shall be run by using a solution composed of 50% concentrated antifreeze and 50% water, by volume. The pH of this antifreeze solution shall not be below 7.5.

(3) **Corrosion inhibition test.** The reserve alkalinity of antifreeze as determined by ASTM D-1121 (2011) shall be reported. The corrosion inhibitive properties of antifreeze shall be determined by ASTM D-1384 Test Method (2012). The average weight loss of each metal coupon shall not exceed the maximums stated as follows: copper 10 mg, solder 30 mg, brass 10 mg, steel 10 mg, cast iron 10 mg, and aluminum 30 mg.

(4) **Freezing point test.** The freezing point of antifreeze shall be determined by the ASTM designation D-1177 (2016) test. The freezing points of the various water antifreeze solutions shall be such as to protect according to the chart in Appendix A of this Chapter.

[Source: Added a 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 14 Ok Reg 2494, eff 7-1-97; Amended at 34 Ok Reg 929, eff 9-11-17]

### **165:16-5-2. Testing of methanol type antifreeze**

The American Society for Testing and Materials (ASTM) standards shall be used to make the following tests of antifreeze.

(1) **Boiling point test.** The boiling point of an antifreeze shall be determined by the ASTM designation D-1120 (2016) test. The boiling point of a concentrated antifreeze when added to the cooling system of a motor vehicle at atmospheric pressure shall not be below 133° F or 56° C.

(2) **pH test.** The pH of an antifreeze shall be determined by the ASTM designation D-1287 (2011) test. The pH of an antifreeze shall not be below 7.5. The pH of an antifreeze shall be run by using a solution composed of 50% concentrated antifreeze and 50% water, by volume.

(3) **Reserve alkalinity test.** The reserve alkalinity of an antifreeze shall be determined by the ASTM designation D-1121 (2011) test. The reserve alkalinity shall not be below 10.0.

(4) **Freezing point test.** The freezing point of an antifreeze shall be determined by the ASTM designation D-1177 (2016) test. The freezing point of the various water antifreeze solutions shall be such as to protect according to the chart in Appendix B of this Chapter.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 14 Ok Reg 2494, eff 7-1-97; Amended at 34 Ok Reg 929, eff 9-11-17]

#### **165:16-5-3. Testing of prediluted aqueous ethylene glycol antifreeze**

The American Society for Testing and Materials (ASTM) standards shall be used to make the following tests of antifreeze.

(1) **Boiling point test.** The boiling point of an antifreeze shall be determined by the ASTM D-1120 (2016) test. The boiling point of the prediluted coolant as packaged shall be at least 226°F or 108°C.

(2) **pH test.** The pH of an antifreeze shall be determined by the ASTM designation D-1287 (2011) test. The pH of an antifreeze shall be run by using a sample of the prediluted coolant as packaged. The pH of this antifreeze solution shall not be below 7.5.

(3) **Corrosion inhibition test.** The reserve alkalinity of antifreeze as determined by ASTM D-1121 (2011) shall be reported. The corrosion inhibitive properties of antifreeze shall be determined by ASTM D-1384 Test Method (2012). The average weight loss of each metal coupon shall not exceed the maximums stated as follows: copper 10 mg, solder 30 mg, brass 10 mg, steel 10 mg, cast iron 10 mg, and aluminum 30 mg.

(4) **Freezing point test.** The freezing point of antifreeze shall be determined by the ASTM designation D-1177 (2016) test. The freezing point of the concentrated antifreeze solution shall be at least to -34° F or -37° C.

[Source: Added at 14 Ok Reg 2494, eff 7-1-97; Amended at 34 Ok Reg 929, eff 9-11-17]

#### **165:16-5-4. Testing of propylene glycol antifreeze**

The American Society for Testing and Materials (ASTM) standards shall be used to make the following tests of antifreeze.

(1) **Boiling point test.** The boiling point of an antifreeze shall be determined by the ASTM designation D-1120 (2016) test. The boiling point of a concentrated antifreeze shall not be below 305° F or 152° C. When added to the cooling system of a motor vehicle, a 50% antifreeze solution at atmospheric pressure shall increase the boiling point to a degree not less than 219° F or 104° C.

(2) **pH test.** The pH of an antifreeze shall be determined by the ASTM designation D-1287 (2011) test. The pH of an antifreeze shall be run by using a solution composed of 50% concentrated antifreeze and 50% distilled water, by volume. The pH of this antifreeze solution shall not be below 7.5.

(3) **Corrosion inhibition test.** The reserve alkalinity of antifreeze as determined by ASTM D-1121 (2011) shall be reported. The corrosion inhibitive properties of antifreeze shall be determined by ASTM D-1384 Test Method (2012). The average weight loss of each metal coupon shall not exceed the maximums stated as follows: copper 10 mg, solder 30 mg, brass 10 mg, steel 10 mg, cast iron 10 mg, and aluminum 30 mg.

(4) **Freezing point test.** The freezing point of antifreeze shall be determined by the ASTM designation D-1177 (2016) test. The freezing points of a 50% concentrated antifreeze and 50% distilled water solution shall not be above  $-26^{\circ}\text{F}$  or  $-32^{\circ}\text{C}$ .

[Source: Added at 14 Ok Reg 2494, eff 7-1-97; Amended at 34 Ok Reg 929, eff 9-11-17]

## SUBCHAPTER 7. ADULTERATION AND MISBRANDING

### 165:16-7-1. Adulteration

Any antifreeze submitted to PSTD for permit approval and testing shall be deemed to be adulterated if the certified analysis or other testing indicates:

- (1) It consists in whole or in part of any substance which will render it injurious to the cooling system of an internal combustion engine or will make the operation of the engine dangerous to the user.
- (2) Its strength, quality, or purity falls below the professed standard of strength, quality, or purity under which it is sold.
- (3) It is a product intended to be used without further dilution and does not provide freezing point protection to  $-34^{\circ}$  Fahrenheit.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 34 Ok Reg 929, eff 9-11-17; Amended at 36 Ok Reg 545, eff 8-1-19]

### 165:16-7-2. Misbranding and labeling

Any antifreeze submitted to PSTD for permit approval shall be deemed to be misbranded if:

- (1) Labeling is false or misleading in any particular manner.
- (2) In package form it does not bear a label containing the name and place of business of the distributor, manufacturer, marketer, packer, producer, seller, warehouse or wholesaler, and an accurate statement of the quantity of contents in terms of weight or volume and these facts are not stated plainly and correctly on the outside.
- (3) The product is to be diluted with another substance for use and does not bear on the label or in an accompanying instruction sheet, folder, or booklet a statement or chart showing appropriate amounts of each substance to be used to provide protection from freezing at various degrees of temperature down to at least thirty degrees ( $30^{\circ}$ ) below zero Fahrenheit.
- (4) The product is intended to be used without further dilution and the freezing point is not stated on the label and the front and back labels do not bear the words "Ready to Use" in minimum one quarter inch ( $1/4$ " ) high letters.
- (5) Antifreeze manufacturers and licensees must provide a copy of any new version of any label change not previously submitted and approved by PSTD.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 34 Ok Reg 929, eff 9-11-17; Amended at 36 Ok Reg 545, eff 8-1-19]

## **SUBCHAPTER 9. ADVERTISING**

### **165:16-9-1. Advertising**

No advertising literature relating to any antifreeze sold, or to be sold, in the State of Oklahoma shall contain any statement that the antifreeze advertised for sale has been approved by the Commission unless a current permit from PSTD has been issued to the distributor, manufacturer, marketer, packer, producer, seller, warehouse or wholesaler, in which event such statement, together with the permit number, may be contained in any labeling and advertising literature where such brand or trademark or antifreeze is being advertised for sale.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 13 Ok Reg 2409, eff 7-1-96; Amended at 34 Ok Reg 929, eff 9-11-17]

## **SUBCHAPTER 11. PENALTY FOR VIOLATION**

### **165:16-11-1. Penalty**

(a) Any person who violates or fails to comply with the provisions of this Chapter or the laws of the State, or any person who aids and abets in the violation thereof, shall, in addition to the penalties provided by law, be deemed guilty of contempt of order of the Commission and be subject to a fine not to exceed \$500.00 for each offense.

(b) Each day such violation occurs shall constitute a separate offense.

(c) Each container of antifreeze not conforming to all requirements set forth in this Chapter shall constitute a separate offense.

[Source: Added at 9 Ok Reg 2333, eff 6-25-92; Amended at 34 Ok Reg 929, eff 9-11-17]



**APPENDIX A. TESTING OF ETHYLENE GLYCOL ANTIFREEZE**

**COOLING SYSTEM CAPACITY  
IN  
QUARTS OF ANTIFREEZE REQUIRED**

QUARTS	TEMPERATURE IN DEGREES FAHRENHEIT									
	1	2	3	4	5	6	7	8	9	10
8	23°	11°	-6°	-34°	-65°					
9	24°	14°	0°	-21°	-50°					
10	25°	16°	4°	-12°	-34°	-62°				
11	26°	18°	8°	-6°	-23°	-47°				
12	27°	19°	10°	0°	-15°	-34°	-56°			
13		21°	13°	3°	-9°	-25°	-45°			
14			15°	6°	-5°	-18°	-34°	-54°		
15			16°	8°	0°	-12°	-26°	-42°		
16			17°	10°	2°	-8°	-19°	-34°	-50°	
17			18°	12°	5°	-4°	-14°	-27°	-42°	-62°
18			19°	14°	7°	-0°	-10°	-21°	-34°	-47°
19			20°	15°	9°	2°	-7°	-16°	-26°	-42°
20			21°	16°	10°	4°	-3°	-12°	-21°	-34°

[Source: Added at 13 Ok Reg 2409, eff 7-1-96]

**APPENDIX B. TESTING OF METHANOL TYPE ANTIFREEZE**

COOLING SYSTEM CAPACITY  
IN  
QUARTS OF METHANOL ANTIFREEZE REQUIRED

QUARTS	TEMPERATURE IN DEGREES FAHRENHEIT									
	1	2	3	4	5	6	7	8	9	10
10	23°	11°	-4°	-24°	-45°					
11	24°	14°	1°	-17°	-35°					
12		16°	5°	-10°	-27°	-45°				
13		18°	7°	-5°	-20°	-37°				
14		19°	10°	-1°	-15°	-29°	-45°			
15		20°	11°	2°	-10°	-24°	-39°			
16		21°	13°	5°	-6°	-18°	-31°	-45°		
17		22°	15°	7°	-30°	-14°	-26°	-39°		
18		22°	16°	9°	0°	-10°	-21°	-33°	-45°	
19		23°	17°	10°	2°	-7°	-17°	-28°	-40°	
20		23°	18°	11°	5°	-4°	-13°	-24°	-34°	-45°

[Source: Added at 13 Ok Reg 2409, eff 7-1-96]