

Automotive Technology 7th Edition
Chapter 17: Antifreeze and Coolant Matching Quiz
Matching Quiz

Name: _____ Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|--|--|-----------|
| 1. Antifreeze | A. A type of corrosion caused by stray electrical currents in the coolant system. | 1. _____ |
| 2. Coolant | B. Coolant that uses organic acids for corrosion protection, typically orange, red, or pink, and has a longer service life. | 2. _____ |
| 3. Ethylene Glycol | C. A less toxic type of glycol used in some antifreeze formulations. | 3. _____ |
| 4. Propylene Glycol | D. Corrosion that occurs when two dissimilar metals are in contact in an electrolyte (like coolant). | 4. _____ |
| 5. Inorganic Additive Technology (IAT) Coolant | E. A concentrated, glycol-based liquid that must be diluted with water before using. | 5. _____ |
| 6. Organic Acid Technology (OAT) Coolant | F. A tool used to test the freezing and boiling points of coolant. | 6. _____ |
| 7. Hybrid Organic Acid Technology (HOAT) Coolant | G. A mixture of antifreeze and water, used in the cooling system. | 7. _____ |
| 8. Refractometer | H. A blend of IAT and OAT technologies, offering extended life and improved corrosion protection, often yellow or turquoise. | 8. _____ |
| 9. Electrolysis | I. The most common type of glycol used in antifreeze, known for its good heat transfer and freeze protection. | 9. _____ |
| 10. Galvanic Activity | J. The traditional green-colored coolant, containing silicates and phosphates for corrosion protection. | 10. _____ |

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Answer Key

Answer Key:

1. E
2. G
3. I
4. C
5. J
6. B
7. H
8. F
9. A
10. D