

Automotive Technology 7th Edition
Chapter 82: Catalytic Converters
Matching Quiz

Name: _____

Date: _____

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

- | | | |
|-------------------------------------|---|-----------|
| 1. Catalyst | A. The ability of the converter to store and release oxygen, primarily due to its cerium coating. | 1. _____ |
| 2. Cerium | B. A diagnostic procedure that involves tapping the converter with a rubber mallet to listen for rattles from a broken substrate. | 2. _____ |
| 3. Contamination | C. A small, quick-heating oxidation converter located close to the exhaust manifold to start the emission control process more rapidly. | 3. _____ |
| 4. Light-off Temperature | D. The temperature, approximately 500°F (260°C), that a converter must reach before it begins to work effectively. | 4. _____ |
| 5. Oxygen Storage Capacity (OSC) | E. The three precious metals that are used to facilitate the chemical reactions in a converter. | 5. _____ |
| 6. Preconverter | F. A chemical or element that initiates a chemical reaction without being consumed in the process. | 6. _____ |
| 7. Rhodium, Palladium, and Platinum | G. A type of converter that reduces all three major exhaust emissions (NO _x , HC, and CO) into carbon dioxide and water. | 7. _____ |
| 8. Tap Test | H. An element included in many converters since the early 1990s that has the ability to store oxygen. | 8. _____ |
| 9. Three-Way Converter (TWC) | I. The destruction of a converter's effectiveness due to substances like excess engine oil, antifreeze, or sulfur in the exhaust. | 9. _____ |
| 10. Washcoat | J. A porous aluminum material applied to the converter's substrate to create a rough surface for the catalytic materials. | 10. _____ |

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Answer Key

Answer Key:

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