

Automotive Technology 7th Edition
Chapter 94: Braking Principles and Friction Materials
Matching Quiz

Name: _____ Date: _____

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

- | | | |
|--------------------------------------|---|-----------|
| 1. Kinetic Energy | A. The loss of braking power that occurs when brake system components overheat. | 1. _____ |
| 2. Weight Transfer | B. A silicate mineral, once popular for brake linings due to its heat resistance and strength. | 2. _____ |
| 3. Coefficient of Friction (μ) | C. Occurs when a brake drum overheats and expands away from the brake lining. | 3. _____ |
| 4. Static Friction | D. Caused by inertia, it is the process where a vehicle's weight shifts toward the front wheels during braking. | 4. _____ |
| 5. Brake Fade | E. Non-asbestos organic (NAO) linings known for being quiet and producing less noticeable, light-colored dust. | 5. _____ |
| 6. Mechanical Fade | F. A standardized system on brake linings that identifies the material and its friction rating. | 6. _____ |
| 7. Asbestos | G. A value that expresses the amount of friction between two objects or surfaces. | 7. _____ |
| 8. Semimetallic | H. The energy of mass in motion, which increases by the square of the speed. | 8. _____ |
| 9. Ceramic Pads | I. The friction between two surfaces at rest, which is always higher than when the surfaces are in motion. | 9. _____ |
| 10. Edge Codes | J. Brake lining material that uses sintered metal particles rather than asbestos in its formulation. | 10. _____ |

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Answer Key

Answer Key:

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