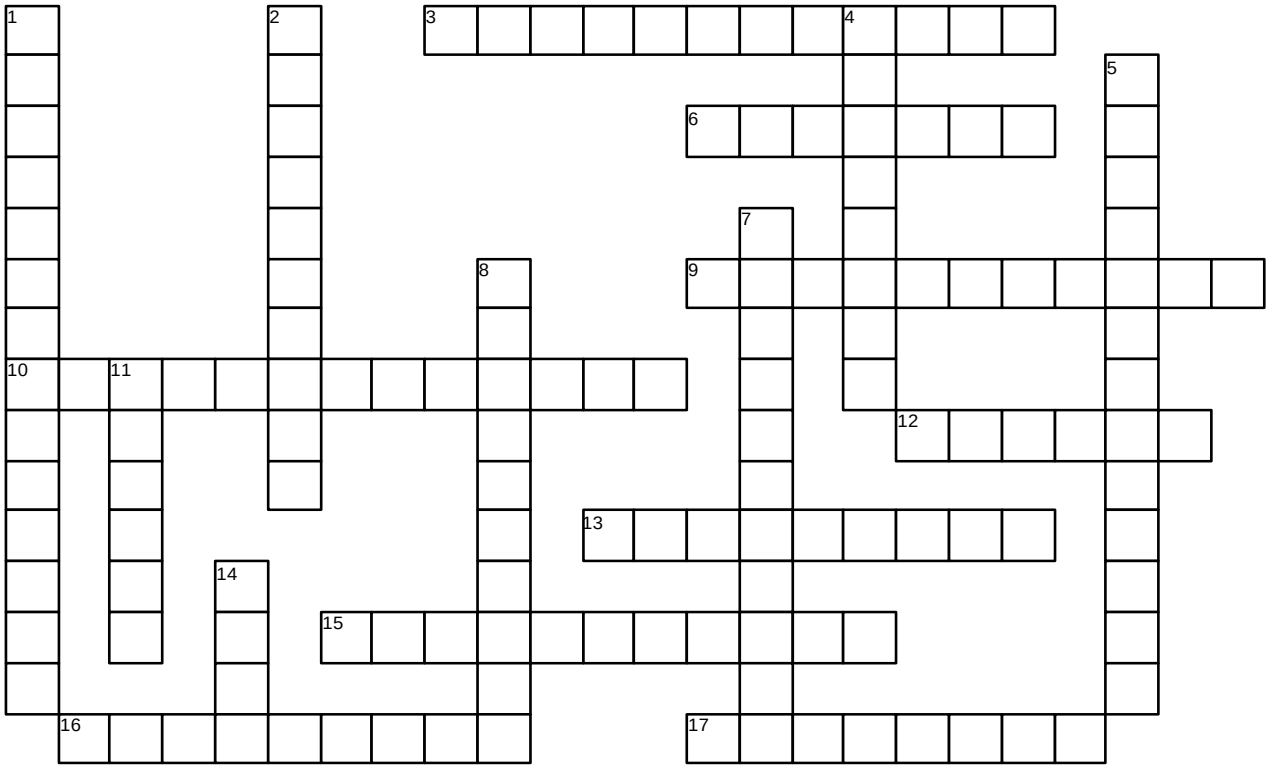
Braking Principles And Friction Materials

Chapter 4



ACROSS

3 The term _____ refer to brake lining material that uses metal, rather than asbestos, in its formulation.

6 Synthetic friction material are often called _____ in the American afermarket .

9 Another term for brake pads that use synthetic fibers is called ___-_____ organic (NAO).

10 The amount of friction between two objects or surfaces is commonly expressed as a value called _____ __ friction.

12 _____ is a soft metal with very high thermal and electrical conductivity and is used in most brake lining/pads.

13 Starting in 1964, brake linings have been using s standardized way to identify the brake lining materials, The ____ ____ follow the SAE Standard J866a.

15 ___-_____ synthetic (NAS) is another term that may be used in referring to synthetic brake linings.

16 The loss of brake power is called _____ ____.

17 _____ is the term used to describe naturally occurring silicate minerals that consist of long fibers.

DOWN

1 _____ ____ occurs when a brake drum overheats and expands away from the brake lining.

2 Most vehicles have a forward _____ ____, which means that even when stopped, more than 50% of their weight is supported by the front wheels.

4 All brake pads and shoes manufactured after January 1, 2015, are required to have a ___ ____ icon indicating the level of compliance with state friction material content legislation.

5 _____ _____ is a fundamental form of mechanical energy. It is the energy of mass in motion.

7 Brake pads and linings that use synthetic material, such as aramid fibers, instead of steel are usually referred to as ___-_____.

8 _____ ____ affects both drum and disc brakes and occurs when the friction material overheats to the point where its coefficient of friction drops off.

11 The ability to do work is called _____.

14 The transfer of energy form one physical system to another-especially the transfer of energy to an object through the application of force is called ____.