

# Automotive\_tyres\_15x15\_2008-10-07

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## Across

- 1 Radial tyres are superior to cross-ply tyres in terms of longer life, superior \_\_\_\_ comfort, and better mileage (6)
- 3 The strands of fabric forming the plies or layers of the tyre. These may be made from fiberglass, rayon, nylon, polyester or steel (4)
- 5 These days the punctured tubes are repaired quickly by applying cold adhesive \_\_\_\_ (4)
- 7 A rubber-coated layer of fabric containing cords that run parallel to each other; extends from bead to bead and goes between the innerliner and belts or tread (3)
- 8 Uniform designation of tyre sizes, in metric measurements originally introduced by American tyre manufacturers in 1977; commonly called "\_\_\_\_ system." (1-6)
- 10 Tyres that are designed for use on dry and wet pavement, and also provide traction in snow and ice (3-6,5)
- 14 Distance between the two opposite inside edges of the rim flanges (3,5)
- 15 International Organization for Standardization, the group that developed the OSI protocols (3)
- 16 Special slits within a tread that increase wet and snow traction (5)
- 19 The state in which all wheels on a vehicle are pointed in the optimum direction relative to the road and each other (9)

23 The force between the tyres and the road surface which causes the tyre to grip the road (8)

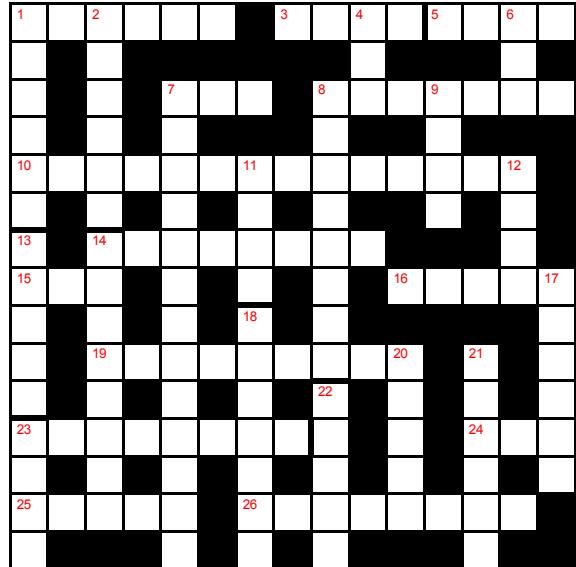
24 A unit of pressure, that will support a column of mercury 760 mm high at sea level and 0 degrees centigrade (3)

25 In a tubeless tyre, a rubber \_\_\_\_ or a strip would replace the conventional tube (5)

26 The tread section that runs around the circumference of the tyre, separated by the tread grooves (5,3)

## Down

- 1 Pneumatic tyre that has radial-ply casing (6)
- 2 Radial tyres of present day have almost \_\_\_\_ life as compared to its earlier axial counterparts (6)
- 4 A metal support for a tyre and tube assembly upon which the tyre beads are seated (3)



6 A measurement unit for tyre pressure (3)

7 A tyre with a pneumatic tube inside designed to be filled with air (9,4)

8 Tubeless tyres do not result into sudden blasts in case of a \_\_\_\_ and there would only be a slow air loss (8)

9 A precisely engineered assembly of rubber, chemicals, fabric and metal designed to provide traction, cushion road shock and carry a load under varying conditions (4)

11 To slip or slide on the road when tyres lose their rolling grip (4)

12 The combination of tyre width, construction type, aspect ratio and rim size used in differentiating tyres (4)

13 \_\_\_\_ tests are always conducted on tyres before marketing them (5)

14 The changing of tyres from front to rear or

from side-to-side on a vehicle according to a set pattern; this ensures even treadwear (8)

17 Wobbling of wheels from side-to-side on a vehicle (6)

18 On the way (2,5)

20 That portion of a tyre that comes into contact with the road. It is distinguished by the design of its ribs and grooves (5)

21 A synthetic fabric used in some tyres that is stronger than steel (6)

22 Tyre & tube assembly duly mounted on the rim (5)

23 The amount of air and pressure needed to inflate the tyre for proper running of the vehicle (4)