

Automotive_tyres_15x15_2008-10-07

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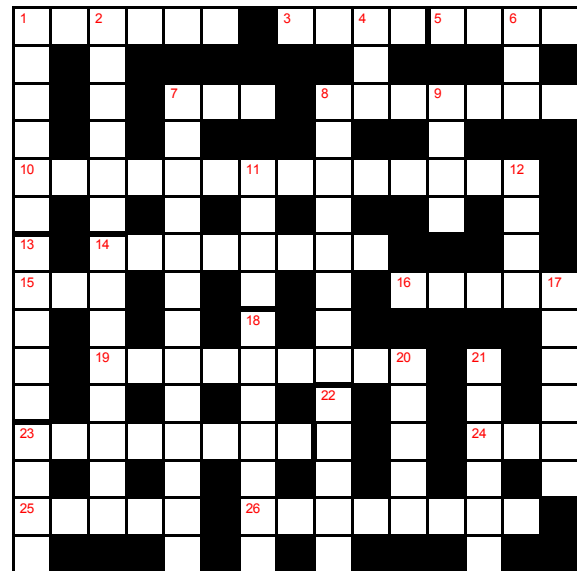
Across

- 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)