ACROSS

1. _______ _______ is the distance between the back rim edge and the wheel center section mounting pad.
2. The _______ is the soft rubber lining on the inside of the tire that protects the body plies and helps provide for self-sealing of small punctures.
3. _______ _______ are used to hold a wheel to the brake disc, brake drum, or wheel bearing assembly.
4. _______ - _______ tires reduce roll
5. The wheel and tire are _______ _______ because they are not supported by the vehicle’s springs.
6. The _______ is another name for the center section of a wheel.
7. The US DOT and the NHTSA developed a system of tire grading, the _______, to help customers better judge the relative performance of tires.
8. _______ - _______ _______ for light trucks are designed to give improved off-road performance on sand, mud, and soft soil and still provide acceptable hard-road surface performance.
9. The _______ is the foundation of the tire and is located where the tire grips the inside of the wheel rim.
10. The _______ _______ is an abbreviated method to indicate the load-carrying capabilities of a tire.
11. After the tire has been assembled by the tire builder, it is called a _______.
12. The _______ _______ refers to the part of the tire that contacts the ground.
13. The _______ _______ ___________, designed for use on electric or hybrid vehicles, operates at higher inflation pressures, reduced load percentages, and lower rolling resistance.
14. All tires use a tire valve, called a _______ _______, to hold air in the tire.
15. The _______ is the part of the tire between the tread and the wheel.
16. Tire _______ can occur during the construction of any radial or belted tire when the parts of the tire are badly positioned, causing the tire to be smaller in diameter on one side.
17. When tread depth is down to the legal limit of 2/32 in., bald strips called _______ appear across the tread.
18. The point where the majority of these overlaps occur is called the _______ _______, which represents the stiffest part of the tire.
19. The _______ _______ requirements include resistance to tire damage that could be caused by curbs, chuckholes, and other common occurrences for a tire used on public roads.
20. _______ is when trapped water causes the tires to ride up on a layer of water and lose contact with the ground.
21. _______ is another term that describes a slight pulling force on a vehicle due to tire construction.
22. _______ _______ is a very important variable in wheel design.
23. _______ _______ are designed to operate without any air for a limited distance.

DOWN

2. The _______ _______ is the soft rubber lining on the inside of the tire that protects the body plies and helps provide for self-sealing of small punctures.
3. _______ _______ are used to hold a wheel to the brake disc, brake drum, or wheel bearing assembly.
4. The wheel and tire are _______ _______ because they are not supported by the vehicle’s springs.
5. The _______ is another name for the center section of a wheel.
6. The US DOT and the NHTSA developed a system of tire grading, the _______, to help customers better judge the relative performance of tires.
7. _______ - _______ _______ for light trucks are designed to give improved off-road performance on sand, mud, and soft soil and still provide acceptable hard-road surface performance.
8. The _______ _______ is the soft rubber lining on the inside of the tire that protects the body plies and helps provide for self-sealing of small punctures.
9. On four-lug axles and wheels, the _______ _______ measurement is simply taken from center to center on opposite studs or holes.
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