

Road wear test specifications for type approval of studded tyres

Including requirements of Appendix with more detail, Version 1.0, TRAFI/7664/05/03/1944/2014

Load index category	Below 600 kg	600-800 kg	Over 800 kg	C	
Test tyre size	175/65R14	195/65R15	235/65R17	195/70R15C	Primary tyre size for the load category.
Alternative test tyre sizes	185/60R15 195/55R16	205/55R16 225/45R17	255/55R18 255/50R19	215/65R16C 225/65R16C	Other sizes may also be used depending on actual product family.
Limit value for approval	0.9 g	1.1 g	1.4 g	1.8 g	Each test tyre must respect the limit value for the category it represent
Approval	<ul style="list-style-type: none"> If result is more than 10% lower than the limit value of the category. If two test results are below the limit value. 				
Run-in distance	No running-in (new tyres)				
Tyre pressure	2.3 bar	2.5 bar	2.7 bar	3.5 bar	Cold inflation pressure
Test tyres	<ul style="list-style-type: none"> Test is driven with new tyres, that have been manufactured at least two weeks before starting the test Studding has to be done at least 48 hours before starting the test Approved expert does not need to monitor the studding Test tyres in both sides of the vehicle 				
Studding quality requirements	<ul style="list-style-type: none"> Tyre manufacturer or stud installer must define target value for stud protrusion Each stud in a tyre has to be +/- 30% of the average protrusion value of the studs Average protrusion have to be +/- 10% of the target protrusion value specified by the manufacturer/installer If the target protrusion value is below 0,5 mm, a single stud may differ maximum +/- 0,1 mm from the target protrusion value 				
Tyre and test vehicle load	For the entire vehicle, 65-75 % of the sum of the maximum loads of the test tyres. For an individual tyre, 60-80 % of the maximum of the load index. Less than 5 % difference between the left-hand and right-hand tyre loads. Less than 5 % difference between the front and rear axle loads.				
Weather conditions	Air temperature +2... +20 °C Road temperature +2... +25 °C				
Wear result	200 vehicle (400 tyre) overruns at 100 km/h (except C category 80 km/h) Stone samples (granite) in 3 rows, 5 test samples per row (15 totally) Wear results is average value of the three row wear sums.				
Allowed change in stud protrusion	Mean value of stud protrusions of test tyres after test must not be more than +/- 25% from the mean value of test tyres measured before the test.				