

Proposal to replace document GRBP/2025/13 (Proposal for Supplement 3 to the 04 series of amendments to UN Regulation No. 117)

The changes compared to document GRBP/2025/13 are marked in **bold** for added text and **strike through** for deleted text, all in red font.

Additional changes compared to document GRBP/2025/13 proposed by Contracting Parties are marked in **bold** for added text and **strike through** for deleted text, all in blue font.

Additional changes compared to document GRBP-81-09 are marked in **bold** for added text and **strike through** for deleted text, all in purple font.

A green frame highlights the triggering element for the amendment

I. Proposal

Paragraph 1.1., amend to read:

- "1.1. This Regulation applies to new pneumatic tyres * of classes C1, C2 and C3 in new state with regard to their sound emissions, **and** rolling resistance, and **to adhesion performance on wet surfaces (wet adhesion) in new and for class C1** ~~tyres in~~ worn state with regard to adhesion performance on wet surfaces (wet adhesion). It also applies to C1 tyres in new state with regards to their ~~tyre~~ abrasion as defined in paragraph 1.3. of this UN Regulation. It does not, however, apply to:"

Paragraph 2.11. and footnote 2, amend to read:

- "2.11. "Reinforced tyre" or "extra load tyre" of class C1 means a tyre **structure** designed to carry more load at a higher inflation pressure than the load carried by the corresponding standard version tyre at the standard inflation pressure as specified in ISO 4000-1:~~2021~~**2024**.²

² Class C1 tyres correspond to "passenger car tyres" in ISO 4000-1:~~2021~~**2024**."

Paragraph 2.13.1., amend to read:

- "2.13.1. "Tyre for use in severe snow conditions" means a snow tyre or a special use tyre whose tread pattern, tread compound or **structure-construction** is specifically designed to be used in severe snow conditions and that fulfils the requirements of paragraphs 6.5. and 6.5.1. of this Regulation."

Paragraph 2.16.1., amend to read:

- "2.16.1. "Principal grooves" means the wide ~~circumferential~~ **tread** grooves positioned in the central **zone part** of the tyre tread, ~~which, in the case of passenger and light truck (commercial) tyres, have the treadwear indicators located in the base~~ **which covers about three-quarters of the width of the tread surface as defined in Annex 9 to this Regulation.**"

Add a new paragraph 2.16.2., to read:

- "2.16.2. "Tread groove" means the space between two adjacent ribs **and/or** blocks in the tread pattern."

Subparagraphs 2.18.(b), (c), (i) and (j), amend to read:

- "2.18. [...] (b) F2493 – ~~2324~~ for the size P225/60R16 and referred to as "SRTT16"; (c) F3611 – ~~22e124~~ for the size P225/60R16 in worn state and referred to as "moulded SRTT16 worn"; [...] (i) F3676 – ~~2324~~ for the size 225/45R17 and referred to as "SRTT17S"; (j) F3675 – ~~2324~~ for the size 225/45R17 and referred to as "SRTT17W".

Paragraph 6.8., amend to read:

- "6.8. In order to be classified as a "professional off-road tyre", a **special use** tyre shall have ~~all of the~~ following characteristics:
- (a) For ~~classes-class~~ C1 ~~and C2~~ tyres:
 - (i) A tread depth ≥ 11 mm;
 - (ii) A void-to-fill ratio ≥ 35 per cent;
 - (iii) A maximum speed category **less than or equal to 160 km/h (speed category symbol $\leq Q$).**
 - (b) **For class C2 tyres, a maximum speed category less than or equal to 160 km/h (speed category symbol Q).**
 - (~~b~~c) For class C3 tyres, **a maximum speed category less than or equal to 110 km/h (speed category symbol K).**
 - (i) ~~A tread depth ≥ 16 mm;~~
 - (ii) ~~A void to fill ratio ≥ 35 per cent;~~
 - (iii) ~~A maximum speed rating of $\leq K$.~~

Paragraph 12.26., amend to read:

- "12.26. As from the 1 September 2028, Contracting Parties applying this Regulation shall not be obliged to accept type approval issued according to Supplement 2 to the 04 series of amendments to this Regulation, **first issued after 31 August 2028**, if the track characteristics for measuring wet adhesion of tyre in new state are not established using the following reference tyres:

Tyre class	Reference tyres
C2	SRTT16C
C3	SRTT19.5 siped or SRTT22.5 siped

"

Annex 6, subparagraph 2.2.(a), amend to read:

- "2.2. [...] (a) For class C1 tyres, the width of the rim shall be as defined in ISO 4000-1:2021**2024**, [...] "

Annex 6 – Appendix 1, paragraph 2.1., amend to read:

- "2.1. Width
For passenger car tyre rims (class C1 tyres), the test rim width shall be the same as the measuring rim determined in ISO 4000-1:2021**2024**, clause 6.2.2.

[...]"

Annex 7 – Appendix 3, Part 1, Item 7, amend to read:

"7. Snow grip index ~~SG relative to SRTT according to paragraph 6.5.1.1.~~"

Annex 8,

Paragraph 2.1.3.1., amend to read:

"2.1.3.1. Standard Reference Test Tyre

For the evaluation of the ice performance of class C1 tyres, the Standard Reference Test Tyre SRTT16 shall be used. The reference tyre shall not be older than 30 months starting from the production week and shall be stored in accordance with ASTM F2493 – ~~2324~~."

Paragraph 2.1.3.2.1., amend to read:

"2.1.3.2.1. Fit each test tyres on an approved rim pursuant to ISO 4000-1:2021~~2024~~ using conventional mounting methods. Subject to the foregoing, the rim width code shall not differ more than 0.5 from the measuring rim. If a commercialized rim is not available for the test vehicle, it will be acceptable to use a rim whose rim width code differs by 1.0 from the measuring rim width code. Ensure proper bead seating by the use of a suitable lubricant. Excessive use of lubricant should be avoided to prevent slipping of the tyre on the wheel rim."

Annex 9, paragraph 2.1.3., amend to read:

"2.1.3. "Groove" means ~~tread groove – the space between two adjacent ribs or blocks in the tread pattern.~~"

II. Justification

1. Paragraph "Scope" is amended to reflect that adhesion performance on wet surfaces (wet adhesion) is required not only for C1 tyres, but also C2 and C3 tyres.
 2. The year reference to the latest international standard specifications ASTM F2493-24, F3611-24, F3676-24 and F3675-24 are updated.
 3. The reference to the latest International Standard ISO 4000-1:2024 (published in March 2024) is updated.
 4. In the definition of *reinforced tyre* and *tyre for use in severe snow conditions*, the word "*structure*" is replaced by "*construction*" as the definition applies to all tyre structures (e.g., diagonal, radial, run flat tyre).
 5. The definitions of tread groove and principal grooves are aligned to the ones proposed in UN Regulations Nos. 30 and 54 (see pertinent justifications).
 6. Editorial revision is proposed to simplify the wording of the requirements for professional off-road tyres (see dedicated informal document).
 7. The transitional provision in paragraph 12.26. is amended to correctly specify that it applies to type approvals "first issued after 31 August 2028" (and it is consistent with the transitional provisions in paragraph 12.21. and 12.25.).
 8. Correction of reference to non-existing paragraph 6.5.1.1. in Annex 7 – Appendix 3, Part 1, Item 7 (C3 tyres) with further alignment with the wording of Annex 7 – Appendix 2, Part 1, Item 7 (C1 and C2 tyres).
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