

20 June 2023

---

## Agreement

### **Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations\***

(Revision 3, including the amendments which entered into force on 14 September 2017)

---

#### **Addendum 89 – UN Regulation No. 90**

#### **Revision 3 - Amendment 10**

Supplement 10 to the 02 series of amendments – Date of entry into force: 5 June 2023.

#### **Uniform provisions concerning the approval of replacement brake lining assemblies, drum-brake linings and discs and drums for power-driven vehicles and their trailers**

This document is meant purely as documentation tool. The authentic and legal binding text is: ECE/TRANS/WP.29/2022/148.



**UNITED NATIONS**

---

\* Former titles of the Agreement:

Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958 (original version); Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, done at Geneva on 5 October 1995 (Revision 2).



*Annex 15,*

*Paragraph 2.3.,* amend to read:

"2.3. Braking surface lightening: any solution is allowed (holes, slots, wave, etc.) provided that the ratio between the vehicle kinetic energy to the mass of the disc braking surface, must be same or lower than the reference disc (with tolerance of +20 per cent maximum).

..."

---