

Proposal for supplement 1 to the 10 Series of Amendments to UN Regulation No. 16 (Safety-belts) *

Submitted by the expert from the Netherlands

The text reproduced below was prepared by the expert from the Netherlands to allow the use of talcum for the dust resistance test as alternative to dry quartz. The modifications are marked in **bold** for new and strikethrough for deleted characters.

I. Proposal

Paragraph 7.6.3.2., amend to read:

- "7.6.3.2. The dust used in the test described in paragraph 7.6.3.1. above shall consist of about 1 kg of dry quartz, **or alternatively, talcum**. The particle size distribution is as follows:
- (a) Passing 150 µm aperture, 104 µm wire diameter: 99 to 100 per cent;
 - (b) Passing 105 µm aperture, 64 µm wire diameter: 76 to 86 per cent;
 - (c) Passing 75 µm aperture, 52 µm wire diameter: 60 to 70 per cent. "
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II. Justification

1. quartz is considered carcinogenic (group 1) to humans and therefore its use is restricted in several regions in the world, where UN Regulation 16 testing is performed.
 2. The purpose of the dust test is to evaluate the sensitivity of the retractor for dust intrusion. It is not a durability test and therefore differences in hardness of the used dust particles will hardly influence the outcome of the test.
 3. IEC 60529 is a generally accepted, and used, industry standard describing different degrees of protection provided by enclosures, indicated in IP classes. For IP classes IP5x and IP6x, this standard is using talcum which is able to pass through a square-meshed sieve the nominal wire diameter of which is 50 µm and the nominal width of a gap between wires 75 µm. This is very much in line with 7.6.3.2. (c) and therefore could be used as alternative.
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* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.