

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1231

SEAT BELT ASSEMBLIES FOR MOTORISTS

1st EDITION

July 1970

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BRIEF HISTORY

The ISO Recommendation R 1231, *Seat belt assemblies for motorists*, was drawn up by Technical Committee ISO/TC 94, *Personal safety – Protective clothing and equipment*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1142, which was circulated to all the ISO Member Bodies for enquiry in January 1967, and was approved by the requisite majority of Member Bodies. However, after having examined some of the comments put forward, the Secretariat deemed it necessary to prepare a second Draft ISO Recommendation No. 1142, which was submitted to all ISO Member Bodies in September 1968. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Austria	Hungary	Switzerland
Belgium	Israel	Turkey
Colombia	New Zealand	U.A.R.
Denmark	Norway	United Kingdom
France	Romania	U.S.A.
Germany	Spain	U.S.S.R.
Greece	Sweden	Yugoslavia

The following Member Bodies opposed the approval of the second Draft :

Australia
Italy
Japan
South Africa, Rep. of

This second Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

SEAT BELT ASSEMBLIES FOR MOTORISTS

INTRODUCTION

The Technical Committee responsible for drafting this ISO Recommendation wishes to point out that some of the proposed tests have not been included. These tests, and in particular the dynamic test, call for investigations regarding their reproducibility and other features. It was considered inadvisable to delay the issue of an ISO Recommendation on this account in view of the fact that this ISO Recommendation includes the requirements necessary to ensure a reasonably safe seat belt, and indeed covers all those that were applied to seat belts until comparatively recently.

The tests to be added later are noted in clause 1.4.

1. SCOPE

- 1.1 This ISO Recommendation lays down the requirements and test methods for motorists' seat belts and harnesses for separate use, i.e. as individual equipment by adult occupants of motor vehicles, in order to minimize the risk of bodily harm in an accident.
- 1.2 Manufacturing requirements are specified for the materials used and for the finish of buckles and metal parts. The tests specified are restricted to the determination of the suitability of a belt or harness assembly and of its components.
- 1.3 The Recommendation does not cover requirements for the parts of the vehicle to which seat belt assemblies are anchored. (See ISO Recommendation R 1417, *Anchorage for seat belts.**)
- 1.4 Tests are given to ascertain compliance with the following requirements :
 - (a) tensile strength of the webbing or other material used for the straps;
 - (b) buckle slipping under load;
 - (c) buckle release load;
 - (d) the load-carrying capacity and elongation of the entire belt or harness assembly under static and/or dynamic** loading;
 - (e) variation in width of webbing under load;
 - (f) resistance to heat;
 - (g) resistance to cold;
 - (h) wet strength;
 - (j) resistance to light.To be added later :
 - (k) resistance to ageing;
 - (l) resistance to abrasion.

* At present Draft ISO Recommendation.

** To be added after completion of investigations.