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Leaf springs — Technical specifications

Ressorts à lames — Spécifications techniques

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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 227, *Springs*.

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Leaf springs — Technical specifications

1 Scope

This International Standard specifies the technical specifications for leaf springs.

This International Standard is applicable to leaf springs for road vehicle (hereinafter simply “springs”). The leaf springs for other vehicle may refer to this International Standard.

2 Normative references

The following referenced documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 683-14, *Heat-treatable steels, alloy steels and free-cutting steels — Part 14: Hot-rolled steels for quenched and tempered springs*

ISO 3887, *Steels — Determination of depth of decarburization*

ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 16249, *Springs — Symbols*

ISO 18265, *Metallic materials — Conversion of hardness values*

ISO 26909, *Springs — Vocabulary*

ISO 26910-1, *Springs — Shot peening — Part 1: General procedures*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 26909 and Table 1 apply.

4 Symbols

For the purposes of this document, the symbols and units given in ISO 16249 and Table 1 apply.

Table 1 — Terms, symbols and units

Term	Symbol	Unit	Meaning
Spring end width	b_A	mm	Width of the spring eye or sliding end.
Assembled spring width	b_E	mm	Width of the assembly in the range of U-clamping.
Camber	C	mm	Perpendicular distance from the surface where tensile stress is generated in use, of the uppermost leaf at the centre pin or the centre bolt, to the straight line connecting the centers of both eyes or connecting the load-supporting points of the spring.
Free camber	C_0	mm	Camber when free or at zero load.
Design camber	C_d	mm	Camber under design (nominal) load.

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