



SLOVENSKI STANDARD
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Alpske smuči - Določevanje utrujenosti - Preskus s cikličnim obremenjevanjem

Alpine skis - Determination of fatigue indexes - Cyclic loading test

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Skis alpins -- Détermination des indices de fatigue -- Essai en flexion alternée
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STANDARD

ISO
6266

Second edition
2013-03-01

**Alpine skis — Determination of
fatigue indexes — Cyclic loading test**

*Skis alpins — Détermination des indices de fatigue — Essai en
flexion alternée*

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ISO 6266:2013(E)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6266 was prepared by Technical Committee ISO/TC 83, *Sports and recreational equipment*, Subcommittee SC 4, *Snowsports equipment*.

This second edition cancels and replaces the first edition (ISO 6266:1980), which has been technically revised.

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Introduction

Previous investigations showed that the fatigue of an alpine ski is not easy to describe. If one understands by fatigue the remaining negative change of some characteristics of the ski, influencing the performance of the ski, as a result of normal use, several tests would be necessary to determine exactly the susceptibility of a ski to such changes. In addition, some factors may have substantial influence on the results such as ski length, spring constant, test temperature, kind of vibration, frequency etc. It was therefore decided that a test method taking account of all these factors might be of some interest for ski research but that it should not be proposed for standardization.

Instead of this, a simplified test of the fatigue behaviour of two important characteristics of the ski (i.e. of camber height and centre spring constant) was proposed for standardization.

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Alpine skis — Determination of fatigue indexes — Cyclic loading test

1 Scope

This International Standard specifies a method for the determination of the fatigue indexes of alpine skis (i.e. the resistance of the skis to changes in shape and of stiffness) after a bending test with cyclic loading.

2 Normative references

The following 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 5902, *Alpine skis — Determination of elastic properties*

ISO 6289, *Skis — Vocabulary*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 camber height

h_k
distance between the running surface on the ski and a planar surface, measured with the ski resting freely under its own mass

3.2 original weighted bottom camber height

h_B
weighted bottom camber height, according to ISO 6289, determined prior to the test

3.3 final weighted bottom camber height

h'_B
weighted bottom camber height, according to ISO 6289, determined after the test

3.4 spring constant

c
ratio of the force F applied to the ski, to the corresponding deflection f :

$$c = \frac{F}{f}$$

Note 1 to entry: Depending on the individual parts of the ski on which the force F is applied, one can define:

- the centre spring constant, c_M ;
- the shovel spring constant, c_S ;
- the rear spring constant, c_R ;