International Standard

ISO 10256-2

Protective equipment for use in ice hockey —

Part 2: Head protectors for skaters

Équipements de protection destinés à être utilisés en hockey sur glace —

Partie 2: Protections de tête pour les patineurs

Second edition
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 83, *Sports and other recreational facilities and equipment*, Subcommittee SC 5, *Ice hockey equipment and facilities,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 158, *Head protection,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 10256-2:2016), which has been technically revised.

The main changes are as follows:

— Clause 1 has been simplified by removing the list of requirements and test methods;

— Clause 3 has been edited and re-ordered with new definitions added;

— Clause 4 has been re-ordered and re-numbered to be aligned with the clauses in ISO 10256-1:2024;

— in 4.6 tolerances have been added; the measurement methodology has been changed to align with EN 13087-6:2012 and the requirement has been changed to align with other European protector standards;

— samples are now given in Table 1; a sentence has been added in 5.1.2.1 to clarify that head protectors are to be tested without face or eye protectors;

— in 5.1.3, conditioning temperatures have been aligned with ISO 10256-1:2024, Clause 7;

— 5.2, 5.3 and 5.4 have been updated to include test procedures;

— apparatus for shock absorption testing has been moved to Annex A and A.7.3 has been edited to clarify the system verification procedure;

— Table 1 has been revised to include additional tests;

— Figure 6 has been redrawn to include tolerances.

A list of all parts in the ISO 10256 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Ice hockey is a high-speed, collision sport in which there is a risk of injury.

By playing this sport, participants accept the risk of serious injury, paralysis and/or death.

The intention of head protectors used in ice hockey is to reduce the frequency and severity of injuries to the head by distributing and dampening the force from impacts against the head protector and by counteracting penetration of objects.

Protective equipment for use in ice hockey —

Part 2:
Head protectors for skaters

1 Scope

This document specifies performance requirements and test methods for head protectors for use in ice hockey.

This document is applicable to head protectors worn by ice hockey players excluding goalkeepers and by referees.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6487:2015, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

ISO 10256-1:2024, *Protective equipment for use in ice hockey — Part 1: General requirements*

EN 960:2006, *Headforms for use in the testing of protective helmets*

EN 13087-6:2012, *Protective helmets — Test methods — Part 6: Field of vision*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10256-1:2024 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
field of vision
extent of vision through the protector in the ‘as worn’ position

3.2
crack
condition in which there is a break in the *head protector* (3.5) through the full thickness of the material without complete separation of parts

3.3
fracturing
condition in which there is a complete separation of any part of the protector into pieces

3.4
retention system
system that secures the *head protector* (3.5) to the head by passing under the mandible in whole or in part when adjusted in accordance with manufacturer’s instructions

3.5
head protector
helmet
device intended to reduce the risk of head injury to ice hockey participants

3.6
central vertical axis
axis lying along the intersection of the median and mid-frontal planes

3.7
test line
line that defines the boundaries of the *test area* (3.9)

Note 1 to entry: See Figure 2.

3.8
helmet positioning index
HPI
vertical distance measured at the median plane, from the front edge of the *head protector* (3.5) to the reference plane, when the head protector is placed on the reference headform

3.9
test area
area on and above the *test line* (3.7) for prescribed and non-prescribed impact sites

Note 1 to entry: See Figure 2.

3.10
support assembly
drop assembly in the monorail system minus the headform, ball arm, ball clamp, ball clamp bolts and accelerometer

3.11
spherical impactor
device used to verify the drop assembly system accuracy

Note 1 to entry: See A.7.2.

3.12
model
category of protector with the same essential characteristics that can come in several sizes

Note 1 to entry: Essential characteristics include:

a) materials;

b) construction;

c) retention system;

d) protective padding.

4 Requirements

4.1 Ergonomics

ISO 10256-1:2024, 4.1 shall apply.