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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44458.3-2024

**Eye and face protection for sports use - Part 3: Requirements
and test methods for eyewear intended to be used for surface
swimming**

运动用眼部和面部保护 第3部分：水面游泳用眼镜的要求和试验方法

(English Translation)

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Appendix A (Informative) Selection and Use of Swimming Goggles

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 3 of GB/T 44458 "Eye and face protection for sports". GB/T 44458 has been published in the following parts.

--- Part 3: Requirements and test methods for surface swimming goggles.

This document modifies ISO 18527-3:2020 "Eye and face protection for sports - Part 3: Requirements for goggles for surface swimming" and Test Methods.

The technical differences between this document and ISO 18527-3:2020 and their reasons are as follows.

--- Normative references and ISO 12312-1:2013 cited in the text are changed to ISO 12312-1:2022;

--- The reference to ISO 18526-4 in "4.5 Head Model" is changed to Appendix A of GB 14866-2023.

The head model is a head model for eye and face protection that is suitable for the head and face features of Chinese people and has no corresponding relationship with ISO 18526-4;

--- Deleted "4.8 Mandatory and Optional Requirements", this clause is not applicable.

Introduction

Eye and face injuries are common sports injuries. Some eye and face injuries, even if minor, can cause changes in the patient's lifestyle, such as Visual impairment or loss can have serious economic and social consequences for both the patient and society.

People who have common sense of eye protection and take eye protection measures during sports are less likely to suffer eye and facial injuries than those who do not take eye protection measures.

The probability and degree of eye and facial injuries vary from sport to sport. In some sports, if protective gear is not used, it seems very dangerous, but once used, it becomes relatively safe. Therefore, pay attention to prevent eye and facial injuries during exercise, and take appropriate measures when necessary.

Take appropriate eye and face protection measures and use eye and face protection equipment. And through standard specifications, reduce the risk of eye and face injuries to the minimum possible.

Low limit.

GB/T 44458 aims to standardize the production and application of eye and face protection products for different sports, and to provide effective protection measures in vulnerable areas.

Protect the safety and health of athletes in sports that may cause eye injuries, and minimize eye and facial injuries caused by sports.

Different types of sports are planned to be composed of the following three parts.

--- Part 1: Requirements for goggles for alpine skiing and snowboarding. The purpose is to specify the requirements and test methods for goggles.

--- Part 2: Requirements for squash goggles. The purpose is to specify the requirements and test methods for squash goggles.

--- Part 3: Requirements and test methods for glasses used for surface swimming. The

purpose is to specify the requirements and test methods for glasses used for surface swimming.

Test method.

Eye and face protection for sports - Part 3: Water Requirements and test methods for swimming goggles

1 Scope

This document specifies the requirements and test methods for goggles used for surface swimming (hereinafter referred to as "swimming goggles"). This document covers both leisure and Requirements for swimming goggles for professional competitive swimming. This document covers materials, construction, optical properties and test methods.

This document also specifies the requirements for information such as labels and instructions provided by the manufacturer of swimming goggles.

This document applies to goggles used for surface swimming and snorkeling, e.g. diving from the edge of a swimming pool. Goggles are not suitable for diving from a high board.

Wear in water.

This document applies to swimming goggles containing the following lenses.

- a) Non-prescription plano or afocal lenses;
- b) non-prescription mass-produced corrective lenses;
- c) Prescription lenses.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB 14866-2023 General technical specification for eye and face protection ISO 48-2 Rubber, vulcanized or thermoplastic - Determination of hardness - Part 2: Hardness between 10 IRHD and 100 IRHD IRHDand100IRHD) protection-Vocabulary) ISO 8980-1:2017 Ophthalmic optics - Raw-edged spectacle lenses - Part 1: Specifications for single-vision and multifocal lenses ISO 8980-2:2017 Ophthalmic optics - Uncut spectacle lenses - Part 2: Progressive lenses ISO 12312-1:2022 Eye and face protection sunglasses and related products Part 1: Sunglasses for general use ISO 18526-3:2020 Test methods for eye and face protection - Part 3: Physical and mechanical properties