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CCS C73

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 38696-2025

Replacing GB/T 38696.1-2020

Eye and face protection - Intense light sources(non-laser) protectors

眼面部防护 强光源（非激光）防护具

Issued on: August 29, 2025 **Implemented on: September 1, 2026**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 38696.1-2020 "Eye and Face Protection Against High-Intensity Light Sources (Non-Laser) - Part

1.Technical Requirements". GB/T 38696.2-2020 "Eye and Face Protection Against High-Intensity Light Sources (Non-Laser) - Part

2.Usage Guidelines". This document is based on... Based on GB/T 38696.1-2020, this standard integrates the content of GB/T 38696.2-2020.Compared with GB/T 38696.1-2020, it includes the following. Aside from structural adjustments and editorial changes, the main technical changes are as follows:

---Added terms and definitions such as "opaque protective gear," "spherical power," and "protective gear against automatically variable intensity light sources" (see Chapter 3);

---A new category has been added. Opaque Protective Equipment (see Chapter 4);

---The "General Requirements" section has been removed (see section

5.1 in the 2020 version);

---Change the three parameters "Materials", "Structure", and "Filter Assembly" to two parameters. "Biocompatibility" and "Structure and Adjustment" (see...). 5.1, 5.2, and 5.3, 5.4, and 5.5 (2020 edition)

---The requirements for "spherical power and astigmatism" have been changed (see 6.2.1,

5.8.5 in the 2020 version);

---The requirement for "prism diopter deviation" has been changed (see 6.2.1,

5.8.7 in the 2020 version);

---Changed "local variation in refractive power" to "spatial deviation" and modified the requirements for "spatial deviation" (see 6.2.2, 2020 version). (of 5.8.6);

1 Scope

GB 38696-2025 is the Chinese national standard on eye and face protection - intense light sources(non-laser) protectors, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 29 August 2025 by the Ministry of Emergency Management, and has been in force since 1 September 2026. Classification: ICS 13.340.99, CCS C73. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification, general requirements, geometric optical performance requirements, physical optical performance requirements, and non-laser protective equipment for high-intensity light sources (non-laser). The optical performance requirements, markings, user manual, and descriptions of the corresponding test methods are included. This document applies to eye protection for those exposed to strong light sources with wavelengths between 250nm and 3000nm. This document does not apply to the assembly of welding protective gear, laser protective gear, sunglasses, ophthalmic instrument components, sunscreens, and other medical and cosmetic equipment. Components.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 14866-2023 General Technical Specification for Eye and Face Protective Equipment

GB/T 30042-2013 Terminology for Personal Protective Equipment - Eye and Face Protection

GB/T 32166.2-2015 Personal Protective Equipment - Eye and Face Protection; Occupational Eye and Face Protection - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 30042-2013, as well as the following terms and definitions, apply to this document.

3.1 Blue light hazard (BLH) Retinal damage caused by photochemical reactions induced by light radiation with wavelengths between 300 nm and 700 nm.

3.2 The degree to which a filter attenuates light radiation.

3.3 Infrared Lens Hazard Thermal damage to the cornea and lens caused by light radiation with wavelengths between 780nm and 3000nm.

3.4 Intense light source; ILS It contains one or more radiation sources with wavelengths between 250 nm and 3000 nm, capable of causing or intended to cause damage in humans and animals. Non-laser light sources with biological effects.

Note. High-intensity light sources can operate in continuous or pulsed mode.