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**Eye and face protection — Sunglasses
and related eyewear —**

**Part 1:
Sunglasses for general use**

AMENDMENT 1

*Protection des yeux et du visage — Lunettes de soleil et articles de
lunetterie associés —*

Partie 1: Lunettes de soleil pour usage général

AMENDEMENT 1



Reference number
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The committee responsible for this document is ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 6, and by Technical Committee CEN/TC 85, *Eye protective equipment* in collaboration.

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Eye and face protection — Sunglasses and related eyewear —

Part 1: Sunglasses for general use

AMENDMENT 1

Page 1, Clause 1

Delete paragraph 3 and replace by the following:

“This part of ISO 12312 is not applicable to related eyewear, such as:

- a) eyewear for protection against radiation from artificial light sources, such as those used in solaria;
- b) eye protectors intended for specific sports (e.g. ski goggles or other types);
- c) sunglasses that have been medically prescribed for attenuating solar radiation;
- d) products intended for direct observation of the sun, such as for viewing a partial or annular solar eclipse;
- e) products intended for occupational eye protection.”

Page 2, 5.2

Delete the following sentence:

“Unless the filter is one of the following, category 0 shall not be claimed:

- a filter for which specific protection against any part of the solar spectrum is claimed;
- a photochromic filter in its faded state.”

Page 3, 5.3.2

Delete the existing text and replace by the following:

“5.3.2 Requirements for road use and driving

5.3.2.1 General

Filters suitable for road use and driving shall be of categories 0, 1, 2 or 3 and shall additionally meet the following two requirements.

- a) *Spectral transmittance.* For wavelengths between 475 nm and 650 nm, the spectral transmittance of filters suitable for road use and driving shall be not less than $0,2\tau_v$.
- b) *Detection of signal lights.* The relative visual attenuation quotient Q of filters of categories 0, 1, 2 and 3 suitable for road use and driving shall be not less than 0,80 for red signal light, not less than 0,60 for yellow, green and blue signal lights. The relative spectral distribution of radiation emitted by incandescent signal lights shall apply in accordance with ISO 12311:2013, 7.8.

5.3.2.2 Driving in twilight or at night

Sunglass filters with a luminous transmittance of less than 75 % shall not be used for road use and driving in twilight or at night. In the case of photochromic sunglass filters, this requirement applies when tested in accordance with ISO 12311:2013, 7.11."

Page 8, 7.6

Insert an additional sentence before the note as follows:

"If this requirement is met, testing according to 7.1 (minimum robustness) is not necessary."

Page 10, 11.2

Delete the existing text and replace by the following:

"Very dark special purpose sunglasses (filter category 4) having a pupillary distance greater than 54 mm shall provide temporal shielding such that the ultraviolet transmittances of the sunglass filter, frame and side comply with the requirements for category 4 filters in Table 1 in the area PPTT shown in Figure 1, defined as follows:

- a) in the line of intersection of the frontal plane (tangent to the apex of the cornea) with the inner surface of the sunglass structure, to elevations of 11 mm above and below the horizontal plane through the reference point; and
- b) in a vertical line in the inner structure of the sunglass that is 30° back from the frontal plane and relative to the apex of the cornea, and to elevations of 6 mm above and below the horizontal plane through the reference point.

NOTE Children benefit from sunglasses with temporal protection but, in absence of data, no dimensions are published in this edition of this standard."

Page 10, Figure 1

Delete the existing title of Figure 1 and replace by the following:

"Figure 1 — Required eye coverage for category 4 sunglasses having pupillary distance greater than 54 mm"

Page 11, 12.1

Delete item g) and replace by the following:

"g) Restrictions of use, which shall include at least the following:

- not for direct observation of the sun;
- not for protection against artificial light sources, e.g. solaria;
- not for use as eye protection against mechanical impact hazards (for products not satisfying the requirements of 7.3 or 7.6);
- any other restrictions deemed appropriate to be communicated by the manufacturer, e.g. increased or decreased transmittance of photochromic glasses due to high or low temperatures or to low light conditions."