

ISO 12312-1:2013-08 (E)

Eye and face protection - Sunglasses and related eyewear - Part 1: Sunglasses for general use

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Construction and materials	1
4.1	Construction	1
4.2	Filter material and surface quality	2
4.3	Physiological compatibility	2
5	Transmittance	2
5.1	Test methods	2
5.2	Transmittance and filter categories	2
5.3	General transmittance requirements	3
6	Refractive power	6
6.1	Spherical and astigmatic power	6
6.2	Local variations in refractive power	6
6.3	Prism imbalance (relative prism error)	6
7	Robustness	7
7.1	Minimum robustness of filters	7
7.2	Frame deformation and retention of filters	7
7.3	Impact resistance of the filter, strength level 1 (optional specification)	7
7.4	Increased endurance of sunglasses (optional specification)	8
7.5	Resistance to perspiration (optional specification)	8
7.6	Impact resistance of the filter, strength level 2 or 3 (optional specification)	8
8	Resistance to solar radiation	9
9	Resistance to ignition	9
10	Resistance to abrasion (optional specification)	9
11	Protective requirements	9
11.1	Coverage area	9
11.2	Temporal protective requirements	10
12	Information and labelling	10
12.1	Information to be supplied with each pair of sunglasses	10
12.2	Additional information	12
13	Selection of test samples	13
13.1	General	13
13.2	Preparation and conditioning of test samples	13
Annex A (informative) Use of sunglass filters		17
Annex B (normative) Unmounted filters used as replacement or alternative filters		19
Bibliography		22