DIN EN ISO 12312-1:2015-12 (E)

Eye and face protection - Sunglasses and related eyewear - Part 1: Sunglasses for g eneral use (ISO 12312-1:2013 + Amd.1:2015) (includes Amendment A1:2015)

Contents

Page

European foreword to EN ISO 12312-1:2013 ..... **3**

〈A1〉 European foreword to EN ISO 12312-1:2013/A1:2015 〈A1〉 **4**

1 Scope **5**

2 Normative references **5**

3 Terms and definitions **5**

4 Construction and materials **5**
4.1 Construction 5
4.2 Filter material and surface quality 6
4.3 Physiological compatibility 6

5 Transmittance **6**
5.1 Test methods 6
5.2 Transmittance and filter categories 6
5.3 General transmittance requirements 7

6 Refractive power **10**
6.1 Spherical and astigmatic power 10
6.2 Local variations in refractive power 10
6.3 Prism imbalance (relative prism error) 10

7 Robustness **11**
7.1 Minimum robustness of filters 11
7.2 Frame deformation and retention of filters 11
7.3 Impact resistance of the filter, strength level 1 (optional specification) 11
7.4 Increased endurance of sunglasses (optional specification) 12
7.5 Resistance to perspiration (optional specification) 12
7.6 Impact resistance of the filter, strength level 2 or 3 (optional specification) 12

8 Resistance to solar radiation **13**

9 Resistance to ignition **13**

10 Resistance to abrasion (optional specification) **13**

11 Protective requirements **13**
11.1 Coverage area 13
11.2 Temporal protective requirements 14

12 Information and labelling **14**
12.1 Information to be supplied with each pair of sunglasses 14
12.2 Additional information 16

13 Selection of test samples **17**
13.1 General 17
13.2 Preparation and conditioning of test samples 17

Annex A (informative) **Use of sunglass filters** **21**

Annex B (normative) **Unmounted filters used as replacement or alternative filters** **23**

Annex ZA (informative) **Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC Personal protective equipment** **26**

Bibliography **28**