

DIN EN ISO 16321-2:2026-06 (E)

Eye and face protection for occupational use - Part 2: Additional requirements for protectors used during welding and related techniques (ISO 16321-2:2021)

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements	1
4.1 General.....	1
4.2 Field of view.....	2
4.3 Requirements for welding filters.....	2
4.3.1 Transmittance requirements and scale numbers.....	2
4.3.2 Narrow angle scatter (reduced luminance coefficient).....	4
4.3.3 Minimum robustness for unmounted welding filters (Static Load Test).....	4
4.3.4 Resistance to UV radiation.....	5
4.4 Automatic welding filters.....	5
4.4.1 General.....	5
4.4.2 Transmittance requirements.....	6
4.4.3 Luminous transmittance variation over time for automatic welding filters.....	7
4.4.4 Variation in luminous transmittance for automatic welding filters.....	7
4.4.5 Switching time and holding time of automatic welding filters.....	8
4.4.6 Manual control of dark shade number.....	9
4.4.7 Resistance to thermal exposure of automatic welding filters.....	9
4.4.8 Optical sensitivity of welding arc detection by automatic welding filters (Optional requirement).....	10
4.4.9 Resistance to surface damage due to fine flying particles (Optional requirement).....	10
5 Requirements for welding helmets, welding hand shields, welding frames and welding mountings	10
5.1 Optical requirements.....	10
5.1.1 Non-filter area transmittance.....	10
5.1.2 Luminous reflectance of welding helmets and welding hand shields.....	10
5.2 Physical and mechanical requirements.....	11
5.2.1 Area to be protected for welding helmets.....	11
5.2.2 Light tightness of welding protectors.....	11
5.2.3 Drop robustness for welding protectors.....	11
5.2.4 Electrical insulation of welding helmets and welding hand shields.....	11
5.2.5 Resistance to penetration by hot solids of welding helmets and welding hand shields.....	11
5.2.6 Dimensions and mass of welding hand shields.....	11
6 Marking of welding protectors	12
6.1 General.....	12
6.2 Mandatory markings on welding filters.....	12
6.3 Mandatory markings on welding protectors except for welding filters.....	12
6.4 Optional markings on welding filters.....	13
6.5 Optional markings on welding protectors except for welding filters.....	13
6.6 Examples of markings.....	13
7 Information to be supplied by the manufacturer	14
Bibliography	15