

Test Report

No. 1200-PZA-23
Rev. 0

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Customer

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Test report contains	Main part and 1 annex
Number of pages	5
Product	Spectacle with oculars without filtering action
Arrival of samples	2023-04-11
Period of testing	2023-05-23 to 2023-07-10
Reference Standard	DIN EN 166 : 2002-04
Remarks	Partial Testing

This test report relates to the mentioned test samples. Without the permission of the DIN CERTCO test centre Nürnberg this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any certification mark.

Nürnberg, 2023-07-10

Compiled by:



René Jäger
- Test Engineer -



Reviewed by:



Anke Kozaczek, B. Sc.
- Test Assistant -



Test objects, tests and results

Based on the tables as written in the standard DIN EN 166, the main part assigns the test samples to the named tests. Each individual test result is documented in the annexes according to the named standards.

Signs and symbols:

- + meet the requirements
- ***do not meet the requirements***
- / not tested or not applicable
- Ab interruption of the testing sequence

The uncertainty of optical measurements corresponds to the required one in DIN EN 167.

Unless stated otherwise, the measurements were carried out in the main viewing point of the samples and, in the case of lenses with corrective power, at the applicable reference point.

Detailed information about the measurement uncertainties are included in the separate document – overview of measurement uncertainties.pdf.

Samples and summary of all test results

Type:	Spectacle with oculars without filtering action, type “SG-010A”					
Test mark:	12001-PZA-23					
Number of delivered parts: 5			Number of test samples: 5			
						
Test- sequence	Requirements	according to		Tests according to		Sample 3200-1 to 3200-5
		DIN EN	Clause	DIN EN	Clause	
1	User information	166	10	166	10	+
2	Identity control	/	/	/	/	+
3	Lateral protection	166	7.2.8	168	19	+
4	Diffusion of light	166	7.1.2.3	167	4	+
5	Transmittance	166	7.1.2.2	167	6	+
6	Protection against high-speed particles (45 m/s)	166	7.2.2	168	9	+
7	Resistance to ignition	166	7.1.7	168	7	+
Individual results of each test sample see annex 1						

Marking:

Frame:	SDT 166F CE
Oculars:	None

ANNEX 1

Type:	Spectacle with oculars without filtering action, type "SG-010A"
Test mark:	12001-PZA-23

Description of the type

Condition of the test item at delivery:	Undamaged	
Frame:	Material:	Plastics, metal screws
	Colour:	Untinted
Oculars:	Material:	Plastics
	Colour:	Untinted
	Centre thickness:	2.3 mm
	Dimension:	140 mm x 43 mm
User information:	Available and complete	
Test device for centre thickness: No. 9022806		
Test device for dimension: No. 9022805		

Identity control

Sample	Comparison	Attribute	Comment
(12001-PZA-23) 3200-1	(10741-PZA-18) 874-1	Material:	+
		Shape:	+
		Colour:	+
		Dimension:	+
Test device for centre thickness: No. 9022806			
Test device for dimension: No. 9022805			

Type:	Spectacle with oculars without filtering action, type "SG-010A"
Test mark:	12001-PZA-23

Diffusion of light, transmittance, and lateral protection

Test ↓	Sample →		3200-1
Reduced luminance coefficient	R L	$\frac{\text{cd/m}^2}{\text{lx}}$	0.09 /
Luminous transmittance τ_{vl} based on CIE source A	R L	%	91.5 /
Lateral protection			+
Test device for reduced luminance coefficient: No. 9022747			
Test device for luminous transmittance: No. 9022776			
Test device for lateral protection: No. 9022768			

Protection against high-speed particles

Ambient temperature: $(23 \pm 5)^\circ \text{C}$ bullet speed: 45 m/s

Sample	Impact point	Comments
3200-2	1	+
3200-3	2	+
3200-4	3	+
3200-5	4	+
Test device for protection against high-speed particles: No. 9022751		

Impact point 1: left eye frontal
Impact point 2: right eye frontal

Impact point 3: left eye side
Impact point 4: right eye side

Resistance to ignition

Test ↓	Sample →	3200-2
Resistance to ignition		+
Test device for resistance to ignition: No. 9022755		

End of test report