



Test Report

No. 1155-ECS-14 Part 1

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Test lab accredited by DAkkS D-PL-19590-02-00

Accredited by the Central ZLS-NB-0156

Authority of the Federal States for Safety Technologies (ZLS)

Customer

Ömer Atiker Machinery Metal Construction and Fuel Systems Import Export Inc. 1.Organize Sanayi Bölgesi Atabey Sk. No:5 42300 SELCUKLU KONYA TURKEY

Manufacturer

Test report contains Main part and 1 measurement report

Number of pages in this test report 7

Product Hand shield for welding, eye- and face

protection during welding and allied processes

Arrival of samples Oct 10 & 20, 2014

Period of testing Oct 31 - Nov 07, 2014

Test specifications (Standards) DIN EN 175 : 1997

Remarks Third delivery of ETM-01

The results described in this test report refer to the mentioned test samples, exclusively. A copy of the test report, complete or in extracts, is not allowed without any written permission of the ECS GmbH Aalen.

Aalen, 26 Nov. 14

Dr. Bernhard Schmitz ECS manager



Main part: page 2 of 3

Test objects, tests and results

Based on the tables as written in the standards DIN EN 175, the main part assigns the test samples to the named tests. The test results are documented according to the named standards.

Signs and symbols

The requirements are described in DIN EN 175.

- + meet the requirements
- do not meet the requirements
- / not tested
- n.a. not applicable
- G borderline case
- Ab interruption of the testing sequence

Whenever the dioptric power of the surface is stated, this value was calculated using the formula F=0,523/r, where "r" is the radius of the curved surface.

The relative measurement uncertainties of the applied optical metrological instruments correspond to the required one in DIN EN 167.

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

Test results

The annexes document the test results of each individual measurement. All results printed in bold and italic type document that the test sample did actually not meet the requirements which are demanded in the specified standards.



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Samples and summary of the test results

Handshield OW ETM-01 - hand shield, Type:

eye and face protection during welding and allied processes

Test report: 11551-ECS-14

Number of delivered samples: 5

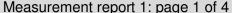
14155-5 will be archived. 3 Number of test samples:

Test se- quence	Requirement			Tests		Samples
			accor	ding to		14155-1 to -3
		EN	Clause	EN	Clause	
1	Marking	175	9	175	9	n.a.
2	Information delivered by the manufacturer / applicant	175	10	175	10	+
3	Design and assembly / material and manufacture	175	4	175	4	+
4	Area of coverage	175	5.3	175	8.1	+
5	Mass	175	5.13	175	5.13	+
6	Dimensions of hand-shield	175	5.2	175	5.2	+
7	Cleaning and disinfection	175	5.12	175	5.12	+
8	Light tightness / light reflectance	175	5.6 / 5.7	175	8.4	+
9	Resistance to ignition / resistance to hot penetration	175	5.9 / 5.10	168	7	+
10	Resistance to damage when dropped	175	5.5	175	8.2	+
See the measurement report 1 for the individual results of each test sample.						

OW 175 CE Assessment:

Aalen, 26 Nov. 14

Dr. Bernhard Schmitz **ECS-Certification**







Test mark:	11551-ECS-14
Туре:	Welding hand shield OW ETM-01, hand shield, eye and face protection during welding and allied processes

Measurement report 1

Description of the type





Figure 1: Welding hand shield ETM-01

Safety hand shield for eye and face protection during welding and allied processes.

The hand shield is equipped with an passive welding filter glass and a clear cover glass plate.

The passive welding filter and the cover plate are replaceable.

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Measurement report 1: page 2 of 4

Test mark:	11551-ECS-14
Type:	Welding hand shield OW ETM-01, hand shield, eye and face protection during welding and allied processes

Frame:	identification mark:	ETM01	
	material:	Plastic, Mobylene (see technical documentation)	
Filter:	identification mark:	WELDING FILTER GLASS NO. 11 787 CE MAKWEL	
	shade:	No marking	
	material:	Glass	
	filter dimensions / mm²	110 * 80	
	filter thickness / mm:	3.2 ± 0.1	
	remark	Filter is not marked correctly.	
	Filters are inserted in a specially designed cartridge.		
Cover plate:	identification mark:	_	
	material:	Glass	
	dimensions / mm²	110 * 80	
	thickness / mm:	2.9 ± 0.1	
	remark	Cover plate is not marked.	
Additional informat manufacturer:	ion delivered by the	User Information	



Test mark:	11551-ECS-14
Туре:	Welding hand shield OW ETM-01, hand shield, eye and face protection during welding and allied processes

Design and assembly

Design and assembly	meet the requirements for: common design, field of vision, area of coverage, material, finish and material quality	
Dimensions	height / mm: 389 depth / mm: 76 width / mm: 247 meet the requirement, +	
Area of coverage	meet the requirement, +	
Protection against heat and electric shock	meet the requirement, +	
cleaning and disinfection	not specified, meet the requirement, +	
Skin kindness	not specified, no observations	
Light tightness of housing	YES	
Luminous transmittance of the welding shell	> shade 14	
Light reflectance	meet the requirement, +	
Mounting of filter and filter covers	meet the requirement, +	
Metal components	no bare metal components	
Mass (excl filter)	268 g, meet the requirement, +	



Measurement report 1: page 4 of 4

Test mark:	11551-ECS-14
Type:	Welding hand shield OW ETM-01, hand shield, eye and face protection during welding and allied processes

Resistance of welder's shield to damage when dropped

sample↓	test temperature / °C	test series	light compact	remarks
	-5°C	1. fall	YES	
14155-1	-5°C	2. fall	YES	none
	-5°C	3. fall	YES	
	80°C	1. fall	YES	
14155-2	80°C	2. fall	YES	Filter breaks, but can be replaced.
	80°C	3. fall	YES	

Inflammability / Resistance to ignition / Resistance to penetration of a hot rod

test ↓	sample →	14155			
		-1	-2	-3	
Inflammability, resistance to penetration of a hot rod		temperature > 650 °C no ignition, no further glowing, no penetration of the hot rod within measurement time of 5 sec.			

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Aalen, 26 Nov. 14