

PERF ITALIA Srl Via Callano 161/163, 76121 Barletta (BT) Italy

Updating of Document: 20th Aug 2023 Document ISO Reference: ISO_SFX 06.120.a

TECHNICAL DATA SHEET MAGMA-SHIELD



	SPECIFICATIONS
PART NO	MA00QR7W
DESCRIPTION	MAGMA-SHIELD Safety Helmet
CERTIFICATIONS	EN397-2012:2012 + A1:2012 Molten Material Splash Resistant
COUNTRY OF ORIGIN	UAE
SHELL	Shell Made of Super Tuff High Heat PA, Ergonomic & Innovative design.
	Excellent Properties retention at Radian Heat of 220deg C
	Molten Material Splash Resistant tested at 1400Deg C from Height of 225mm
	Excellent Shock Absorption, Light Weight & Strong
	Universal Slots on both sides for mounting accessories.
	Y-Chin Strap mounting options
	UV Stability tested up to 400 hours
COLOUR OPTIONS	White/Yellow/Green/Blue
HARNESS	25mm Extra wide, High Tensile Strength Terylene
	8-point mounting, extra safety & max Shock absorption, 3D Adjustments
	3-Layers, HQ Sweat Band, with stain resistant and sweat absorbing features
Orbit-RU HP Susp Sys	Unique (Patent pending) 3D adjustment system Rotary Ratchet
Orbit-XP HP Susp Sys	Optional Push Button Ratchet adjustment system
Orbit-DS HP Susp Sys	Optional Manual ratchet adjustment system
	Wide range adjustment size 52-64cm
	Self lubricating ratchet gears, high impact ABS body.
	Swing options on head band terminals for extra comfort and fitment
Additional info	Withstand sub zero temp to -20deg C
	Artificial ageing durability up to 5 years

FACTORY:

Safetix Mid East FZE

G1-007, PO Box 8898, SAIF ZONE Sharjah – UAE PH: +971 6 5236565, FAX: +971 6 5236565

Email: info@safetix-securite.com







PERF ITALIA Srl Via Callano 161/163, 76121 Barletta (BT) Italy

Updating of Document: 20th JAN 2024 Document ISO Reference: ISO_SFX 06.02.a

TECHNICAL DATA SHEET OPLITE-SHIELD CLASS-E





	SPECIFICATIONS
PART NO	OS11QR7W
DESCRIPTION	OPLITE-SHIELD Safety Helmet
CERTIFICATIONS	ANSI Z89.1-2014 Type I Class-E/ EN397-2012
COUNTRY OF ORIGIN	UAE
PRODUCT FEATURES	
SHELL	Shell Made of High Impact ABS/HDPE, Ergonomic & Innovative design. 2-side Venting
	Non-Vented Electrical Insulated to meet Class-E Standard up to 30kV
	Excellent Shock Absorption
	Light Weight & Strong
	Universal Slots on both sides for mounting accessories.
	Y-Chin Strap mounting options
HARNESS	25mm Extra wide, High Tensile Strength Terylene
	8-point mounting, extra safety & max Shock absorption
	3-Layers, HQ Sweat Band, with stain resistant and sweat absorbing features
Orbit-RU HP Susp Sys	Unique (Patent pending) 3D adjustment system Rotary Ratchet
Orbit-XP HP Susp Sys	Optional Push Button Ratchet adjustment system
Orbit-DS HP Susp Sys	Optional Manual ratchet adjustment system
	Wide range adjustment size 52-64cm
	Self lubricating ratchet gears, high impact ABS body.
	Swing options on head band terminals for extra comfort and fitment
Additional info	Withstand sub zero temp to -20deg C
	Artificial ageing durability up to 5 years

FACTORY:

Safetix Mid East FZE

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Test Report # T18506-02-2 Issue 1 ANSI/ISEA Z89.1 - 2014 (R2019) Safetix Mid East FZE PERF Oplite-Shield – Industrial Safety Helmet 09 February 2024



Approved by:

Sarah Henderson

Head Protection, Hand Protection &

arah Henderson

Athletic Equipment - Laboratory Manager

Prepared by:

Shelley Brady

Head Protection & Athletic Equipment -

Laboratory Administrator

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Issued to: Safetix Mid East FZE Date: 09 February 2024 T18506-02-2 G1-004, Saif Zone Report:

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Objective:

Contract testing to ANSI/ISEA Z89.1-2014 (R2019) "American National Standard for Industrial Head Protection".

-Type I, Class E, G & C

Sample(s):

PERF Onlite-Shield (OS00OR7W) - Industrial Safety Helmet

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Description	Qty	Date Code	Material	Date Received	Sample ID		
White Shell (Front Brim Cap) w/	30	1/23		24 October 2023	6A-x		
Ratchet Suspension (6-8 pt.), Non- Vented	24	1/24	ABS	24 January 2024	6A-02-x		

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests.

Testing procedures as specified within Section 10 of ANSI/ISEA Z89.1-2014 (R2019) were followed.

Testing was performed at room temperature 23°C ± 3°C (73.4°F ± 5.4°F) per ANSI/ISEA Z89.1 – 2014 (R2019).

Material listed as shown on product or in attestation from client. The material has not been verified by the

Equipment:

Cadex Twin Wire Test Platform **Environmental Conditioning Chambers** Cadex Impact Software V6.9U Hanco Dielectric Strength Chamber

Assessment Summary:

Date Tested: 31 October 2023 & 07 February 2024 – 09 February 2024

Test Performed By: Pete Turpin – Senior Technician

Requirements	Compliant	Non-Compliant
6 Instructions and Marking	X	
7 Performance Requirements		
7.1 Requirements for Type I		
7.1.1 Flammability	X	
7.1.2 Force Transmission	X	
7.1.3 Apex Penetration	X	
7.1.4 Electrical Insulation Requirement		
7.1.4.2 Electrical Insulation Requirement - Class G	X	
7.1.4.3 Electrical Insulation Requirement - Class E	X	
7.3 Requirements for Optional Testing		
7.3.1 Reverse Wearing		
-Force Transmission		
7.3.2 High-Visibility	Not A	mulicable
7.3.3 Higher Temperature	Not Applicable	
7.3.4 Lower Temperature		





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Results:

6

Instructions and Marking	Pass	Fail
6.1 Instructions Provided	X 1	
6.2 Marking:		
a. The name or identification mark of the manufacturer	X	
b. The date of manufacture	X	
c. The American National Standard designation, ANSI/ISEA Z89.1-2014	X 1	
d. The applicable Type and Class followed by optional criteria markings (if applicable)	X	
e. The approximate headband size range	X	
6.3 Optional Performance:		
Reverse Donning		
LT – Lower Temperature	Not Applicable	
HV – High Visibility	1	1
HT – Higher Temperature		

Note: All markings under clause 6.2 shall be at least 1.5 mm (0.06 in.) in height.

7.1.1 **Flammability**

	1		
Sample ID	Afterflame (sec)	Pass	Fail
6A-12	0	X	
Specification:	<5		

¹ - Artwork provided





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7.1.2 **Force Transmission**

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
6A-02-1		5.53	2232		-	X	
6A-02-2		5.53	2403		-	X	
6A-02-3		5.53	2379		-	X	
6A-02-4	49 ± 2	5.52	2359		-	X	
6A-02-5		5.49	2318		-	X	
6A-02-6		5.51	2252	/ 1150	-	X	
6A-02-7		5.49	2424	≤ 4450	-	X	
6A-02-8		5.50	2551		-	X	
6A-02-9		5.50	2444		-	X	
6A-02-10		5.53	2593		-	X	
6A-02-11		5.52	2487		-	X	
6A-0212		5.50	2338		-	X	
Average			2398	≤ 3780		X	
6A-02-13		5.52	3699		-	X	
6A-02-14		5.50	3251		-	X	
6A-02-15		5.53	3551		-	X	
6A-02-16		5.52	2465		-	X	
6A-02-17		5.51	4047		-	X	
6A-02-18		5.50	3677	< 4450	-	X	
6A-02-19	-18 ± 2	5.48	3655	≤ 4450	-	X	
6A-02-20		5.49	3551		-	X	
6A-02-21		5.52	3166		-	X	
6A-02-22		5.48	3613		-	X	
6A-02-23		5.48	3039		-	X	
6A-02-24		5.48	3635		-	X	
Average			3446	≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:

(-) No observation

7.1.3 **Apex Penetration**

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (No / Yes)	Observations	Pass	Fail
6A-25		7.1	No	-	X	
6A-26	49 ± 2	7.0	No	-	X	
6A-27		6.9	No	-	X	
6A-28		7.0	No	-	X	
6A-29	-18 ± 2	7.0	No	-	X	
6A-30		7.0	No	-	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:

(-) No observation





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7.1.4.2 Electrical Insulation Requirements (Class G)

	11							
Sample ID	Leakage (mA)	Burn Through (No / Yes)	Observations	Pass	Fail			
6A-1	0.5	No	-	X				
6A-13	0.5	No	-	X				
Specification:	Class G: ≤ 3 mA	No Burn Through Allowed						

Class G - 2200 volts, 60 Hz, 1 minute

Observations:

(-) No observation

7.1.4.3 Electrical Insulation Requirements (Class E)

Sample	ID Leakage (mA)	Burn Through (No / Yes)	Observations	Pass	Fail
6A-02-	1 4.9	No	-	X	
6A-02-1	4.9	No	-	X	
Specification	n: Class E: ≤ 9 mA	No Burn Through Allowed			

Class E - 20,000 volts, 60 Hz, 3 minutes, 30,000 volts no burn through.

Note: Test line lowered to prevent plashover

Observations: (-) No observation

Sample Photographs:







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Sample Photographs (continued):



6A-02





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- 8. Test reports are valid for certification purposes for one year from date 21. ICS hereby objects to any conflicting terms contained in any order, of issue, inclusive of retest or variant additions, which must be performed within one year of date of issue to avoid full retest.
- Client is responsible for procuring, at its cost, insurance protecting the value of its property, extending to provided samples.
- 10. For the safety of our personnel, Client must advise if samples are known or suspected to contain hazardous substances. Safety Data Sheets must be provided upon request.
- 11. ICS represents that Services shall be performed according to terms and specification agreed to by Client, and in a manner consistent with good laboratory practice. No other Representations to client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any other report or document related to the services. ICS does not guarantee product performance or compliance.
- 12. Schedules are confirmed upon acceptance of quotation. All reasonable efforts will be made to comply with provided timeline. Guarantees are neither implied nor promised.

- 13. Certain work may be subcontracted to ICS-approved laboratories as required or applicable. Client will be notified of this in advance.
- 14. Client agrees to pay any and all additional costs associated with unexpected or above-standard communications and/or consultations with Client or third parties as designated by Client.
- 15. Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by Client.
- 16. Client understands and agrees that ICS, in entering into this Contract and by performing services hereunder, does not assume, abridge, abrogate or undertake to discharge any duty or responsibility of Client to any other party or parties. No one other than Client shall have any right to rely on any Report or other representation or conduct of ICS and ICS disclaims any obligations of any nature whatsoever with respect to such third parties.
- 17. For statements of conformity (pass/fail/"meets") regarding qualitative test results, ICS utilizes simple acceptance as its basis. For most statements of conformity relating to quantitative test results, the decision rule and associated uncertainty is inherent in the standard method. As such, simple acceptance is typically applied. Results on or near pass/fail thresholds or otherwise upon Client request or appeal will be evaluated with reference to the measurement uncertainty of relevant testing practices, equipment and other inputs/variables.
- 18. Client agrees, in consideration of ICS undertaking to perform the test(s) hereunder, to protect, defend and indemnify ICS from any and all claims, damages, expenses either direct or consequential for injuries to persons or property arising out of or in consequence of the performance of the testing, inspection and reporting hereunder and/or the performance of the products tested or inspected hereunder, unless caused by the negligence of ICS.
- 19. It is agreed that if ICS should be found liable for any losses or damages attributable to the services hereunder in any respect, its liability shall not exceed the amount of the fee paid by Client for services rendered and Client's sole remedy at law or in equity shall be the right to recover that sum.
- 20. Quotations are valid for 30 days from date of issue. Standard Terms: 30% Laboratory/Testing fees invoiced and payable upon acceptance of quotation. 15 days net. Any change to these terms requires written approval by the President, Executive Vice President or Accounting Manager. ICS retains the right to require prepayment in full at any time. Cancelled jobs will be invoiced for work performed and/or setup costs incurred. All jobs will be assessed a \$25 sample disposition fee. Shipping costs over \$25 incurred by ICS for sample returns will be invoiced at cost +10%.
- acceptance or other subsequent correspondence submitted by Client.
- 22. In the event that payment is not received within 15 days of invoice date, Client agrees to pay a late payment charge on the unpaid balance equal to 1-1/2% per month or the maximum charge allowed by law, whichever is less, and all costs and expenses, including attorney's fees where recovery of the same is not prohibited by law, incurred by ICS in collecting such invoices.
- 23. All costs associated with compliance with any subpoena (s) for documents, testimony in a court of law, or for any other purpose relating to work performed by ICS in connection with work performed for that Client, shall be paid by Client. Client shall also pay costs related to deposition and trial testimony.
- 24. Cancelled/discontinued orders: Client responsible for all administrative and testing charges up to point of cancellation.



Confidential Report

Our Ref: E-035714







Unit 6, Wheel Forge Way, Trafford Park,

Manchester, M17 1EH, UK. Telephone: +44 (0) 161 876 4211 Email: onestopshop@bttg.co.uk

Website: www.bttg.co.uk

Date: 17 June 2024

Our Ref: E-035714

Your Ref: -

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Client: BSI Product Services

Kitemark House Maylands Avenue Hemel Hempstead Herts

Herts HP2 4SQ

Job Title: Molten metal splash testing of one industrial safety helmet

Client's Order No:

Date of Receipt: 6th June 2024 Date of Test Start: 14th June 2024

Description of Sample(s): One safety helmet, identified as follows, was received for testing:

Magma Shield Sub Helmet

Work Requested: We were asked to make the following test:

EN 397: 2012 Clause 5.2.5 Molten metal splash





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Unit 6, Wheel Forge Way, Trafford Park, Manchester, M17 1EH, UK.

Telephone: +44 (0) 161 876 4211 Email: onestopshop@bttg.co.uk Website: www.bttg.co.uk

Date: 14 June 2024

Our Ref: E-035714

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BSI Product Services

Sample: Magma Shield Sub Helmet

Performance Standard: EN 397: 2012 Clause 5.2.5 Molten metal splash

Test Method: EN ISO 9185: 2007

(Modified as per EN 397: 2012 Clause 6.12 i.e. using a headform (in place of the inclined specimen holder) and substituting the helmet under test for the

PVC skin simulant).

Metal: Iron (>97% Purity) Mass of metal: $150g \pm 10g$

Pouring temperature: 1400 ± 20 °C

Pouring height (pouring axis to top of helmet): 225 \pm 5mm

Summary of Results:

Test	Mass of metal, g	Residue	Metal	Penetration	Deformation	Afterflame
No.		g	poured, g	Yes/No	Yes/No	time, s
1	158	7	151	No	No	0s

Assessment:

Property	EN 397 Requirements	Result Obtained	Pass/Fail
5.2.5 Molten metal splash	No penetration Deformation ≤ 10mm Afterflame time ≤ 5s	No penetration No deformation No afterflame	PASS

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our policy we have used a non-binary decision rule. See our decision rules policy (http://www.bttg.co.uk/decision-rules-policy) for further information.

Enquiries concerning this report should be addressed to Customer Services.







BSI Product Services

Unit 6, Wheel Forge Way, Trafford Park, Manchester, M17 1EH, UK.

> Telephone: +44 (0) 161 876 4211 Email: onestopshop@bttg.co.uk Website: www.bttg.co.uk

> > Date: 14 June 2024

Our Ref: E-035714

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Appendix A

EN 397: 2012 Clause 5.2.5 Molten Metal splash

EN 397 Clause	Test Method	95% Confidence limit	
5.2.5 Molten Metal splash	EN 397 clause 6.1.2	Penetration Deformation Afterflame time	± 0% ± 1mm ± 1 second



