



Date:



Nov 23, 2024



Test Report Number: SZHH01976925

MID OCEAN BRANDS B.V. Applicant:

7/F, KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG

Attn: DEREK HUI

Sample Description:

Thirteen (13) pieces of submitted sample said to be: Item Name Safety Helmet Item/Model No. MO2456

Shell - ABS Material for Helmet Helmet size 51-63cm **Factory Name** 118518 Country of Origin China Country of Destination EU

Date Sample Received Sep 24, 2024

Testing Period Sep 24, 2024 ~ Nov 22, 2024



Tests conducted:

Intertek Testing Services Shenzhen Ltd.

深圳天祥质量技术服务有限公司

As requested by the applicant, refer to attached page(s) for details.



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Conclusion:

Tested sample Submitted helmets <u>Standard</u> EN 397: 2012+A1: 2012 Standard specfication for industrial safety helmets.

Result Pass

Authorized by: For Intertek Testing Services Shenzhen Ltd.

Andy, Fu Bo

Title: Manager CNAS Approved Signatory







Test Report SZHH01976925 Number:

Tests Conducted

1 Standard Specification for Industrial safety helmets

As per EN 397: 2012+A1: 2012 Standard specfication for industrial safety helmets.

Number of samples tested: Eight (8) sets.

Helmets size: 51-63cm

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Test headform: 525 / 555 / 585

Clause	Test Items	Result
4	Physical requirements	7700000
4.1	Materials and construction	
	The helmet shall include at least a shell and a harness.	Р
	Recommendations for materials and construction of helmets are given in Annex	A.
	For those parts of the helmet that come into contact with the skin, materials whice to be likely to cause skin irritation or any adverse effect on health shall not be use	h are known ed.
	There shall be no sharp edge, roughness or projection on any part of the helmet, its accessories or attachment devices, which are in contact, or potential contact, with the wearer, when the helmet is worn, such as is likely to cause injury to the wearer.	Р
	Any part of the helmet which can be adjusted, or removed by the wearer for the purpose of replacement, shall be so designed and manufactured as to facilitate adjustment, removal and attachment without the use of tools.	Р
	Any adjustment system incorporated within the helmet shall be so designed and manufactured as not to become incorrectly adjusted without the wearer's knowledge under the foreseeable conditions of use.	Р
4.2	External vertical distance	Р
	When measured under the conditions given in 6.5 the external vertical distance	(See
	shall be no more than 80 mm.	appendix)
4.3	Internal vertical distance	P
	When measured under the conditions given in 6.5 the internal vertical distance	(See
4.4	shall be no more than 50 mm.	appendix) P
4.4	Internal vertical clearance	
	When measured under the conditions given in 6.5 the internal vertical	(See appendix)
4.5	clearance shall be no less than 25 mm. See Figure 3. Horizontal distance	аррепаіх) Р
4.5		(See
	When measured under the conditions given in 6.5 the horizontal distance at the front and sides of the helmet shall be no less than 5 mm.	appendix)
4.6	Wearing height	P
	Provision shall be made for the wearing height to be adjustable. When	(See
	measured under the conditions given in 6.5 the wearing height at the front or	appendix)
	sides of the helmet shall be no less than:	, ,
	80 mm for helmets mounted on headform size designation 525 (equivalent to	
	code D, EN 960:1994);	
	85 mm for helmets mounted on headform size designation 555 (equivalent to	
	code G, EN 960:1994);	
	90 mm for helmets mounted on headform size designation 585 (equivalent to	
4 7	code K, EN 960:1994).	
4.7	Harness	Р
	A harness shall include a headband and nape strap.	





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onducted Clause	Test Items	Result
4.7.1	Headband/nape strap	Р
	The length of the headband or the nape strap shall be adjustable in increments	(See
	of no more than 5 mm.	appendix)
4.7.2	Cradle	Р
	If the cradle incorporates textile tapes, their individual widths shall be no less	(See
	than 15 mm, and the total of the widths of the tapes radiating from their	appendix)
	intersection shall be no less than 72 mm.	
4.7.3	Comfort band or sweatband	Р
	If provided, a sweatband shall cover the inner front surface of the headband for	(See
	a length of no less than 100 mm each side of the centre of the forehead. The	appendix)
	length shall be measured with a flexible measure along a line 10 mm ± 1 mm	
	above the lower edge of the headband. The sweatband shall have a width not	
	less than that of the headband over the length which it covers.	
4.8	Chin strap	P
	Either the helmet shell or the headband shall be fitted with a chin strap or with	(W:16.0 mm)
	means of attaching one.	
	Any chin strap supplied with the helmet shall be no less than 10 mm wide	
	when un-tensioned and shall be attached either to the shell or to the	
4.9	headband. Ventilation	Р
ਰ. ਹ	If the helmet shell is provided with holes for ventilation purposes, the total area	(240 mm²)
	of such holes shall be no less than 150 mm ² and not more than 450 mm ² .	(240 111111)
4.10	Accessories	NA
4.10	For the fixing of helmet accessories, specified in the information accompanying	INA
	the helmet, in accordance with 7.2.3, the required fixing devices, or appropriate	
	holes in the helmet shell, shall be provided by the helmet manufacturer.	
5	Performance requirements	
5.1	Mandatory requirements	
5.1.1	Shock absorption	Р
	When a helmet is tested by the method given in 6.6, the force transmitted to	(See
	the headform shall not exceed 5,0 kN. This requirement shall be satisfied by	appendix)
	helmets treated in accordance with the appropriate conditioning processes	
	given in 6.2, as specified by the list of mandatory tests given in 6.1.	
5.1.2	Resistance to penetration	Р
	When a helmet is tested by the method given in 6.7, the point of the striker	(See
	shall not contact the surface of the headform. This requirement shall be	appendix)
	satisfied by helmets treated in accordance with the appropriate conditioning	
<u> </u>	processes given in 6.2, as specified by the list of mandatory tests given in 6.1.	
5.1.3	processes given in 6.2, as specified by the list of mandatory tests given in 6.1. Flame resistance	Р
5.1.3	processes given in 6.2, as specified by the list of mandatory tests given in 6.1. Flame resistance When tested by the method given in 6.8, the materials of the shell shall not	Р
5.1.3	processes given in 6.2, as specified by the list of mandatory tests given in 6.1. Flame resistance When tested by the method given in 6.8, the materials of the shell shall not burn with the emission of flame after a period of 5 s has elapsed after removal	Р
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	processes given in 6.2, as specified by the list of mandatory tests given in 6.1. Flame resistance When tested by the method given in 6.8, the materials of the shell shall not burn with the emission of flame after a period of 5 s has elapsed after removal of the flame. Chin strap anchorages When tested in accordance with 6.9, the artificial jaw shall be released at a force of no less than 150 N and no more than 250 N, due to failure only of the	P
5.1.4	processes given in 6.2, as specified by the list of mandatory tests given in 6.1. Flame resistance When tested by the method given in 6.8, the materials of the shell shall not burn with the emission of flame after a period of 5 s has elapsed after removal of the flame. Chin strap anchorages When tested in accordance with 6.9, the artificial jaw shall be released at a force of no less than 150 N and no more than 250 N, due to failure only of the anchorage(s).	P (See appendix)
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5.1.4	processes given in 6.2, as specified by the list of mandatory tests given in 6.1. Flame resistance When tested by the method given in 6.8, the materials of the shell shall not burn with the emission of flame after a period of 5 s has elapsed after removal of the flame. Chin strap anchorages When tested in accordance with 6.9, the artificial jaw shall be released at a force of no less than 150 N and no more than 250 N, due to failure only of the anchorage(s). Label The label which may be attached to the helmet in accordance with 7.2.2 shall remain attached and legible on each sample helmet, following the appropriate	P (See appendix)



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Tests Conducted

onducted		
Clause	Test Items	Result
	of 5.1.1 shall be satisfied by one helmet which has been conditioned in	
	accordance with 6.2.7.	
	When tested for resistance to penetration by the method given in 6.7, the	
	requirement of 5.1.2 shall be satisfied by a second helmet, which has been	
	conditioned in accordance with 6.2.7.	
	Helmets claimed to meet this requirement shall state this fact on the label	
	attached to the helmet, in accordance with 7.2.2.	
5.2.2	Very high temperature (+ 150 °C)	NA
	When tested for shock absorption by the method given in 6.6, the requirement	
	of 5.1.1 shall be satisfied by one helmet, which has been conditioned in	
	accordance with 6.2.8.	
	When tested for resistance to penetration by the method given in 6.7, the	
	requirement of 5.1.2 shall be satisfied by a second helmet, which has been	
	conditioned in accordance with 6.2.8.	
	Helmets claimed to meet this requirement shall state this fact on the label	
	attached to the helmet, in accordance with 7.2.2.	
5.2.3	Electrical properties	NA
	When tested by all three of the methods given in 6.10, the leakage current	
	shall not exceed 1,2 mA.	
	Helmets claimed to meet this requirement (for all 3 tests) shall state this fact on	
	the label attached to the helmet, in accordance with 7.2.2.	
5.2.4	Lateral deformation	NA
0.2.1	When tested by the method given in 6.11, the maximum lateral deformation of	1 17 (
	the helmet shall not exceed 40 mm, and the residual lateral deformation shall	
	not exceed 15 mm.	
	Helmets claimed to meet this requirement shall state this fact on the label	
	attached to the helmet, in accordance with 7.2.2.	
5.2.5	Molten metal splash	NA
0.2.0	When tested by the method given in 6.12, the helmet shell shall not:	14/3
	a) be penetrated by the molten metal;	
	b) show any deformation, measured at right angles to the base plane of the	
	helmet, greater than 10 mm;	
	c) burn with the emission of flame after a period of 5 s has elapsed after the	
	pouring of molten metal has ceased.	
	Helmets claimed to meet this requirement shall state this fact on the label	
	attached to the helmet, in accordance with 7.2.2.	
7	Marking	
7.1	Markings on the helmet	Р
/.1	Every helmet claimed to comply with the requirements of this European	Ĭ,
	Standard shall carry moulded or impressed marking giving the following	
	information:	
	a) number of this European Standard;	
	b) name or identification mark of the manufacturer;	
	c) year and quarter of manufacture;	
	d) type of helmet (manufacturer's designation). This shall be marked on both	
	the shell and the harness;	
	e) size or size range (in centimetres). This shall be marked on both the shell	
	and the harness.	
	f) abbreviation for the material of the shell shall be in accordance with EN ISO	
	472. (For example, ABS, PC, HDPE, etc.)	
7.2	Additional information	
7.2	Additional information	









Tests Conducted

onducted	To at Home	Daguilé
Clause	Test Items	Result
	7.2.1 A label shall be attached to each helmet giving the following information,	Р
	provided precisely and comprehensively in the language of the country of sale:	
	"For adequate protection this helmet must fit or be adjusted to the size of the	
	user's head.	
	The helmet is made to absorb the energy of a blow by partial destruction or	
	damage to the shell and the harness, and even though such damage may not	
	be readily apparent, any helmet subjected to severe impact should be	
	replaced. The attention of users is also drawn to the danger of modifying or removing	
	any of the original component parts of the helmet, other than as recommended	
	by the helmet manufacturer. Helmets should not be adapted for the purpose of	
	fitting attachments in any way not recommended by the helmet manufacturer.	
	Do not apply paint, solvents, adhesives or self-adhesive labels, except in	
	accordance with instructions from the helmet manufacturer."	
	7.2.2 Each helmet shall carry moulded or impressed marking or shall carry a	NA
	durable self-adhesive label stating the optional requirements complied with, as	14/3
	follows:	
	Optional requirement Marking/Label	
	Very low temperature – 20 °C or – 30 °C as appropriate	
	Very high temperature + 150 °C	
	Electrical insulation 440 V a.c.	
	Lateral deformation LD	
	Molten metal splash MM	
	7.2.3 The following information, provided precisely and comprehensibly in the	Р
	official language(s) of the country of sale, shall accompany each helmet:	
	a) the name and address of the manufacturer;	
	b) instructions or recommendations regarding adjustment, fitting, use, cleaning,	
	disinfection, maintenance, servicing and storage. Substances recommended	
	for cleaning, maintenance or disinfection shall have no adverse effect on the	
	helmet and shall not be known to be likely to have any adverse effect upon	
	the wearer, when applied in accordance with the manufacturer's	
	instructions;	
	c) details of suitable accessories and appropriate spare parts;	
	d) the significance of the optional requirements complied with and given in	
	accordance with 7.2.2, and guidance regarding the limits of use of the helmet,	
	corresponding to the respective risks;	
	e) guidance regarding the obsolescence deadline or period of obsolescence of	
	the helmet and its component parts;	
	f) guidance regarding details of the type of packaging suitable for	
	transportation of the helmet.	

Abbreviation: P = Pass; NA = Not Applicable







Tests Conducted

Appendix:

Section 4.2- External vertical distance

Sample No.	External vertice	Compliant	
Sample No.	Headform:525 Headform:585		
1	45	47	Pass

Section 4.3- Internal vertical distance

Sample No.	Internal vertical distance(mm)		Compliant
Sample No.	Headform:525 Headform:585		
1	28	26	Pass

Section 4.4- Internal vertical clearance

Sample No.	Internal vertica	Compliant	
Sample No.	Headform:525 Headform:585		
1	27	28	Pass

Section 4.5- Horizontal distance

	Horizontal distance (mm)				Compliant
Sample No.	Headforn	n:525	Head	lform:585	
	Front	Sides	Front	Sides	
1	12	14	15	17	Pass

Section 4.6- Wearing height

_	Wearing height (mm)			Compliant	
Sample No.	Headform:525 Headforn		form:585		
	Front	Sides	Front	Sides	
1	84	88	95	91	Pass

Section 4.7.1 – Headband / nape strap

The headband was adjustable in increments as follows:

Sample No.	Increment(mm)	Compliant
1	3.1	Pass

Section 4.7.2- Cradle

Sample No.	Individual Width(mm)	Total Width(mm)	Compliant
1	25	120	Pass

Section 4.7.3 - Comfort band or sweatband

Sample No.	Length from centre, each side(mm)	Compliant
1	123	Pass
1	123	Pass



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Tests Conducted

Section 5.1.1-Shock absorbing capacity

Ambient temperature at time of test: 22.1°C

7 time of the temperature at time of tool ==: 0						
Sample No.	Environment Impact	Location Impact	Impact height (mm)	Maximum force transmitted (kN)	Compliant	
1	Low		1000	4.37	Pass	
2	Water	Тор	1000	4.11	Pass	
3	High		1000	4.02	Pass	
4	Artificial ageing		1000	3.33	Pass	

Section 5.1.2-Retention to penetration

Sample No.	Environment Impact	Location Impact	Impact height (mm)	Striker contact headform or not	Compliant
5	Low	_	1000	No	Pass
6	Water	Top (Radius	1000	No	Pass
7	High	50mm)	1000	No	Pass
8	Artificial ageing]	1000	No	Pass

Section 5.1.4- Chin strap anchorages

Sample No.	Environment Impact	Force to release jaw(N)	Compliant				
	IIIIpaci						
7	High	209	Pass				

Photos for reference









Tests Conducted

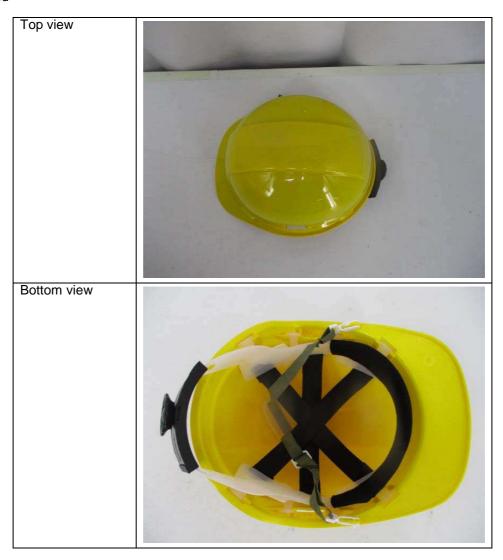








Tests Conducted









Tests Conducted

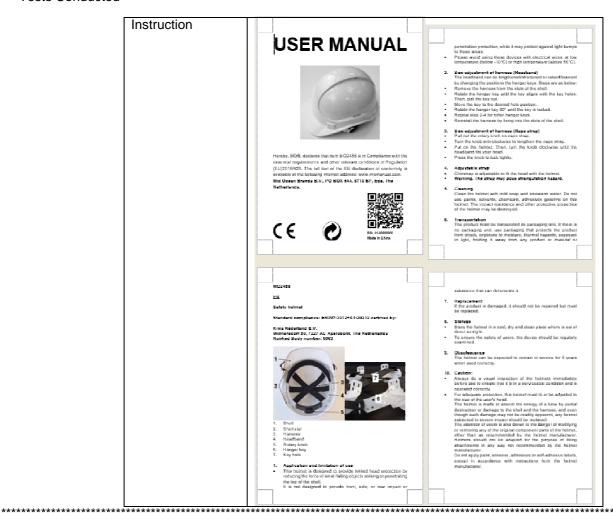




1号楼3、4、5层及1楼西侧半层和3号楼整栋1-5层



Tests Conducted



End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019-(Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results. Full details of our agreed decision rules and the associated risk can be viewed: https://www.intertek.com.cn/diypage/upload/SZ-AP15-HLS-QA.pdf.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek.









EU type-examination certificate (Module B) 242310334/AA/00

Issued 18 December 2024 Date of expiration of validity 18 December 2029

Page 1 of 4

This certificate has THREE Annexes

In compliance with the procedure specified in the **Personal Protective Equipment Scheme** RD_111, Kiwa Nederland B.V. declares as designated Notified Body with number 0063, that the stated products, evaluated according Annex 1 of this certificate, comply with the applicable essential health and safety requirements of the Personal Protective Equipment Regulation (EU) 2016/425, based on the applicable technical standards and specifications as listed in Annex 2 of this certificate.

Product description:

Trademark:

Type designation:

Size:

Size:

Safety helmet

MOB

MO2456

51-63cm

Manufacturer:
Address:
PO BOX 644
City:
6710 BP Ede
Country:
The Netherlands

This certificate is granted to:

Name: Mid Ocean Brands B.V.
Address: PO BOX 644
City: 6710 BP Ede
Country: The Netherlands

Ron Scheepers Managing director



Wilmersdorf 50 Postbus 137 7300 AC Apeldoorn The Netherlands

https://www.kiwa.com/nl/en/markets/radio-wireless-and-electrical-equipment/

Chamber of commerce 08090048



General Requirements

- There is a presumption of conformity with respect to the requirements of the Personal Protective Equipment Regulation, when all applicable harmonized standards listed in the Official Journal of the EU are being applied.
- This EU Type-examination certificate is limited to the Personal Protective Equipment Regulation.
- This EU Type-examination certificate is part of the Conformity Assessment procedure Module B and C, as described in Personal Protective Equipment Regulation.
- The validity of this EU Type-examination certificate is limited to products, which are equal to the one(s) assessed for this EU Type-examination.
- When the manufacturer (or holder of this EU-type examination certificate) is placing the listed products on the European
 market or the countries of the EEA, he is obliged to label the products with the prescribed CE logo. The CE logo stands
 for conformity to all applicable Directives and Regulations.
 - Next to the CE logo the manufacturer has to draw up and issue a Declaration of Conformity, declaring that the product(s) described in this EU Type-examination certificate, are in compliance with Regulation (EU) 2016/425 and any other applicable EU harmonization legislation.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Kiwa shall be notified immediately. Depending on the modifications, Kiwa may have additional examinations carried out in consultation with the applicant.
- In case any referenced standard in this EU-type examination certificate is withdrawn or superseded and the presumption
 of conformity with the essential requirements has ceased, investigation by Kiwa is needed to determine the validity of
 this EU-type examination.
- For category III PPE, this certificate shall only be used in conjunction with one of the conformity assessment procedures referred to in point (c) of Article 19 of the Personal Protective Equipment Regulation.

Remarks and observations

The following conditions are applicable:

None

Annex 2 to EU type-examination certificate

242310334/AA/00

Page 3 of 4

Documentation lodged for this EU Type-examination

Test Reports:

- InterTek Testing Services Shenzhen Ltd.: SZHH01976925, 23 November 2024
- InterTek Testing Services Shenzhen Ltd.: SZHH01982800, 24 October 2024

Product Documentation:

- Assembly drawings
- Internal photos
- External photos
- Manual
- Technical description or data sheets
- Label and label placement
- Risk assessment
- MO2456_Guarantee Letter-DOC upload to website_20241213

Technical Standards and Specifications

The following standards have been used in full or part to cover the essential requirements:

EN 397:2012+A1 October, 2012

Technical features and characteristics

The product includes the following features and characteristics:

Not specified

Annex 3 to EU type-examination certificate Page 4 of 4

242310334/AA/00

The product as described in this EU Type-examination includes the following type designations:

- Product description: Safety helmet

- Trademark: MOB- Type designation: MO2456- Size: 51-63cm