



Test Report

No.: GZHL2310038046HM-1

Date: Nov 09, 2023

Page 1 of 13

KOV INTERNATIONAL SA DE CV
CARRETERA LEON -LAGOS #2238, INTERIOR 12,COL.LAGUNILLAS, CP. 37660, LEON DE LOS
ALDAMAS,GUANAJUATO.

Sample Description : MOTORCYCLE HELMET
Item No. : ZERO
Supplier : KOV INTERNATIONAL SA DE CV

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Size : 59cm-60cm
HPI (from basic plane) : 55mm For M DOT
Sample Receiving Date : Oct 30, 2023
Test Performing Date : Oct 30, 2023 to Nov 07, 2023
Test Performed : 49 CFR PART 571.218 (FMVSS 218)
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Arthur Mak
Authorized Signatory



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Test Conducted: Based on **49 CFR PART 571.218 (FMVSS 218)** Motorcycle Helmets

Number of Tested Sample: 4 piece(s)

Test Results: Details shown as following table

Clause	Test Item / Test Requirement / Test Method	Test Result
5	Requirements Each helmet shall meet the requirements of S5.1, S5.2, and S5.3 when subjected to any conditioning procedure specified in S6.4, and tested in accordance with S7.1, S7.2, and S7.3	Pass
5.1	Impact attenuation When an impact attenuation test is conducted in accordance with S7.1, all of the following requirements shall be met: (a) Peak accelerations shall not exceed 400g; (b) Accelerations in excess of 200g shall not exceed a cumulative duration of 2.0 milliseconds; and (c) Accelerations in excess of 150g shall not exceed a cumulative duration of 4.0 milliseconds.	Pass See annex 1
5.2	Penetration When a penetration test is conducted in accordance with S7.2, the striker shall not contact the surface of the test headform.	Pass
5.3	Retention system	
5.3.1	When tested in accordance with S7.3: (a) The retention system or its components shall attain the loads specified without separation; and (b) The adjustable portion of the retention system test device shall not move more than 1 inch (2.5 cm) measured between preliminary and test load positions.	Pass See annex 2
5.3.2	Where the retention system consists of components which can be independently fastened without securing the complete assembly, each such component shall independently meet the requirements of S5.3.1	NA
5.4	Configuration Each helmet shall have a protective surface of continuous contour at all points on or above the test line described in S6.2.3. The helmet shall provide peripheral vision clearance of at least 105° to each side of the mid-sagittal plane, when the helmet is adjusted as specified in S6.3. The vertex of these angles, shown in Figure 3, shall be at the point on the anterior surface of the reference headform at the intersection of the mid-sagittal and basic planes. The brow opening of the helmet shall be at least 1 inch (2.5 cm) above all points in the basic plane that are within the angles of peripheral vision	Pass See annex 3
5.5	Projections A helmet shall not have any rigid projections inside its shell. Rigid projections outside any helmet's shell shall be limited to those required for operation of essential accessories, and shall not protrude more than 0.20 inch (5 mm).	Pass



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Clause	Test Item / Test Requirement / Test Method	Test Result
5.6	Labeling	
5.6.1	On a label or labels separate from the certification label required by S5.6.2, each helmet shall be labeled permanently and legibly, in a manner such that the label(s) can be read easily without removing padding or any other permanent part, with the following:	Pass
	(a) Manufacturer's name.	Pass
	(b) Discrete size.	Pass
	(c) Month and year of manufacture. This may be spelled out (for example, June 2010), or expressed in numerals (for example, 6/10).	Pass
	(d) Instructions to the purchaser as follows:	Pass
	(1) "Shell and liner constructed of (identify type(s) of materials)	Pass
	(2) "Helmet can be seriously damaged by some common substances without damage being visible to the user. Apply only the following: (Recommended cleaning agents, paints, adhesives, etc., as appropriate)	Pass
	(3) "Make no modifications. Fasten helmet securely. If helmet experiences a severe blow, return it to the manufacturer for inspection, or destroy it and replace it."	Pass
	(4) Any additional relevant safety information should be applied at the time of purchase by means of an attached tag, brochure, or other suitable means	Pass
	Certification	
5.6.2	Each helmet shall be labeled permanently and legibly with a label, constituting the manufacturer's certification that the helmet conforms to the applicable Federal motor vehicle safety standards, that is separate from the label(s) used to comply with S5.6.1, and complies with paragraphs (a) through (c) of this section.	Pass
	(a) Content, format, and appearance. The label required by paragraph S5.6.2 shall have the following content, format, and appearance:	Pass
	(1) The symbol "DOT," horizontally centered on the label, in letters not less than 0.38 inch (1.0 cm) high.	Pass
	(2) The term "FMVSS No. 218," horizontally centered beneath the symbol DOT, in letters not less than 0.09 inches (0.23 cm) high.	Pass
	(3) The word "CERTIFIED," horizontally centered beneath the term "FMVSS No. 218," in letters not less than 0.09 inches (0.23 cm) high.	Pass
	(4) The precise model designation, horizontally centered above the symbol DOT, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass
	(5) The manufacturer's name and/or brand, horizontally centered above the model designation, in letters and/or numerals not less than 0.09 inch (0.23 cm) high.	Pass
	(6) All symbols, letters and numerals shall be in a color that contrasts with the background of the label.	Pass
	(b) Other information. No information, other than the information specified in subparagraph (a), shall appear on the label.	Pass
	(c) Location. The label shall appear on the outer surface of the helmet and be placed so that it is centered laterally with the horizontal centerline of the DOT symbol located a minimum of 1 inch (2.5 cm) and a maximum of 3 inches (7.6 cm) from the bottom edge of the posterior portion of the helmet.	Pass



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Remark:

1. NA = Not applicable.
2. NT = Not tested as per client's request.
3. This test report is to supersede No. GZHL2310038046HM test report which was issued on Nov 07, 2023. And the original test reports (paper and electronic) are invalid.

Model: ZERO

Size: 59-60 cm

Headform: M DOT

HPI: 55 mm

Annex-1 Impact energy attenuation test:

Test Specification: 49 CFR PART 571.218 (FMVSS 218)

Ambient temperature at time of test: 23.0 °C

Condition	Test Anvil	Test Site	Peak' G	Duration at 150 g(ms)	Duration at 200 g(ms)	Assessment
Ambient (Clause 6.4.1 a) 1585 No.1	Flat	Front	151.2	0.43	0.00	Pass
			182.3	2.12	0.00	
	Flat	Rear	153.4	0.75	0.00	Pass
			168.8	2.24	0.00	
	Hemi	Crown	107.0	0.00	0.00	Pass
			123.2	0.00	0.00	
Hemi	Left	99.7	0.00	0.00	Pass	
		101.1	0.00	0.00		
HOT (Clause 6.4.1 b) 1589 No.2	Flat	Crown	213.9	2.11	0.54	Pass
			236.5	2.57	0.80	
	Flat	Left	146.2	0.00	0.00	Pass
			157.0	0.55	0.00	
	Hemi	Front	89.4	0.00	0.00	Pass
			93.0	0.00	0.00	
Hemi	Rear	97.9	0.00	0.00	Pass	
		121.4	0.00	0.00		
Cold (Clause 6.4.1 c) 1589 No.3	Flat	Left	165.2	1.00	0.00	Pass
			175.1	1.97	0.00	
	Flat	Rear	135.8	0.00	0.00	Pass
			148.5	0.00	0.00	
	Hemi	Front	97.9	0.00	0.00	Pass
			106.5	0.00	0.00	
Hemi	Right	101.5	0.00	0.00	Pass	
		111.5	0.00	0.00		



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Wet (Clause 6.4.1 d) 1588 No.4	Flat	Front	134.9	0.00	0.00	Pass
			155.2	0.97	0.00	
	Flat	Right	153.9	0.89	0.00	Pass
			165.6	3.01	0.00	
	Hemi	Left	92.5	0.00	0.00	Pass
			95.2	0.00	0.00	
	Hemi	Rear	94.8	0.00	0.00	Pass
			97.5	0.00	0.00	

Annex-2 Retention system strength test results:

Test Specification: 49 CFR PART 571.218 (FMVSS 218)

Ambient temperature at time of test: 23.0°C

Condition	Max. extension (mm)	Assessment
Ambient (Clause 6.4.1 d) No.1	18.7	Pass
Hot (Clause 6.4.1 d) No.2	19.2	Pass
Cold (Clause 6.4.1 d) No. 3	16.9	Pass
Wet (Clause 6.4.1 d) No.4	18.2	Pass

Annex-3 Vision test result:

Head form: M DOT

Positioning Index: 55 mm

Peripheral vision: >105°

Brow opening: 50 mm



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Sample Photo(s):

<p>Front view</p>	
<p>Side view</p>	



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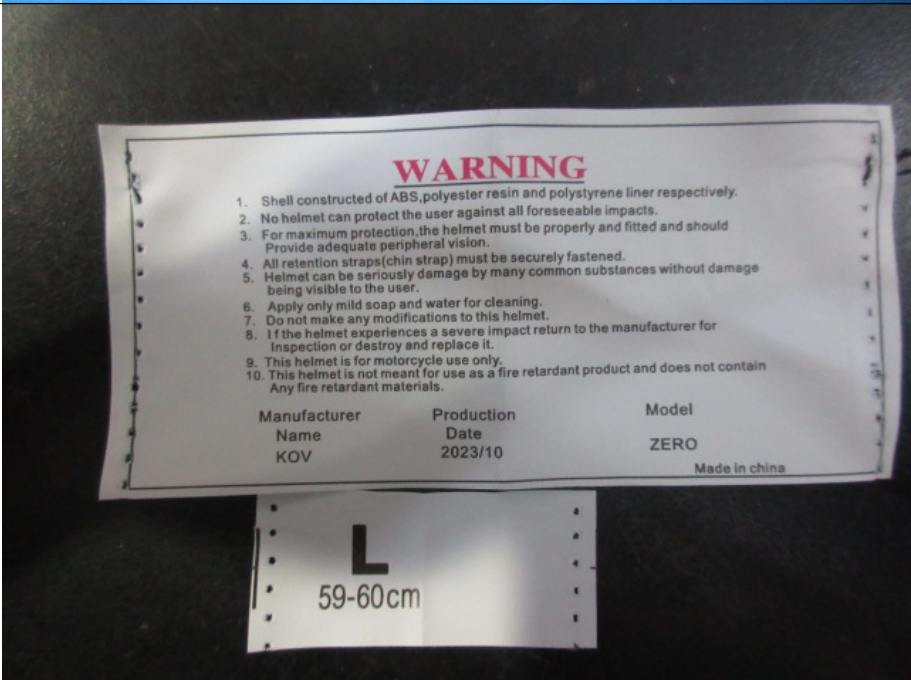
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<p>Bottom view</p>							
<p>Label</p>	 <p>WARNING</p> <ol style="list-style-type: none"> Shell constructed of ABS, polyester resin and polystyrene liner respectively. No helmet can protect the user against all foreseeable impacts. For maximum protection, the helmet must be properly and fitted and should provide adequate peripheral vision. All retention straps (chin strap) must be securely fastened. Helmet can be seriously damaged by many common substances without damage being visible to the user. Apply only mild soap and water for cleaning. Do not make any modifications to this helmet. If the helmet experiences a severe impact return to the manufacturer for inspection or destroy and replace it. This helmet is for motorcycle use only. This helmet is not meant for use as a fire retardant product and does not contain any fire retardant materials. <table border="1"> <thead> <tr> <th>Manufacturer Name</th> <th>Production Date</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>KOV</td> <td>2023/10</td> <td>ZERO</td> </tr> </tbody> </table> <p>Made in china</p> <p>L 59-60cm</p>	Manufacturer Name	Production Date	Model	KOV	2023/10	ZERO
Manufacturer Name	Production Date	Model					
KOV	2023/10	ZERO					



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Front test line for (M) DOT head form



Side test line for (M) DOT head form



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Rear test line for
(M) DOT head form



Penetration sites



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<p>Penetration sites</p>	
<p>Penetration sites</p>	



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<p>Penetration sites</p>	
<p>Penetration sites</p>	



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<p>Penetration sites</p>	
<p>Penetration sites</p>	

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

End of Report



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