

HIGHWAY ROAD REFLECTOR ALUMINIUM ROAD STUD



SPECIFICATION:

• Model No.: AL- 108

• Trademark: Alcolite

• HSN Code: 76169910

• Net Weight: 280 grams

• Stud Size: 100X100X22 mm

• Lens Size: 78 mm X 23mm

• Origin: India

• Reflector: PMMA/ Inbuilt Fixed

Reflector



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India) An ISO - 9001, 14001 & 45001 Certified Institute

Website: www.shriraminstitute.org E-mail id: customercare@shriraminstitute.org qad@shriraminstitute.org

TEST REPORT

NO: C1/0000362187

Issued To

Client Code: (DLHI01A3204) ASHU ENTERPRISES,

H-14, DSIDC INDUSTRIAL COMPLEX, UDYOG NAGAR, ROHTAK ROAD.

NANGLOI

DELHI-H0041

Kind Attn: MS. SMRITI

Date of issue

14-06-2024

Job No

2405-1-141-2526 RG2425/1/2037

Booking No **Booking Date**

30-05-2024

Customer Ref No.

EMAIL

Customer Ref Dt.

27-05-2024

Location

Laboratory

Requirements as Conformity Protocol / Mathad

Job No- 2405-1-141-2526

Sample Detail:

ONE SAMPLE (QUANTITY: 15 NOS)DESCRIBED AS ALCOLITE ALUMINIUM ROAD STUD AL-108, WAS RECEIVED. "THE SAMPLING WAS NOT CARRIED OUT BY SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH. THE SAMPLE DESCRIPTION PROVIDED IN THE TEST CERTIFICATE ARE BASED ON DECLARATION BY THE CUSTOMER."

3.140.	Tests	Results	per Morth 804	Conformity	used
1	Design				Morth 804.3
	(a) The slope or retro reflective surface, °	35	35±5	Yes	
	(b) Surface area of retroreflective surface, cm ²	14.6	13 Minimum	Yes	
2	Identification of Material	Aluminium	Aluminium alloy	Yes	Morth 804.6
3	Compressive Strength, kgf (Breaking Strength)	85920	13635 Minimum	Yes	ASTM 4280-20
4	Colour	Grey	2000		ASTM D 4280-20

Note: Conformity wirh respect to Test at S.No.4 could not be given as requirement is not mentioned in ASTM D 4280-20

Date of Receipt: 30-05-2024 Date of Start: 30-05-2024

Date of Completion: 13-06-2024

End of report

Reviewed and Authorized by EMPLOYEE CODE:(\

Note: The Tesuits Pelate only to the items tested / calibrated above.

Phone: 91-11-35200445, 35200499

Fax: 91-11-35200455

See overleaf for terms & conditions

SRI-C1 (Rev. 05)



अंतर्राष्ट्रीय ऑटोमोटिव प्रौद्योगिकी केंद्र INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY

A Division of National Automotive Board (NAB), Govt. of India

Non-Transferable

TEST REPORT (Development Test)

Test Report No. C D 0 L T 6 6 1 1

Date:

11.07.2024

- 1.0 NAME AND ADDRESS OF THE CUSTOMER
- : M/s. Alcolite India Road Safety Pvt. Ltd. H-14, DSIIDC Industrial Complex, Ground Floor, Front side half portion, Rohtak Road, Nangloi, West Delhi, Udyog Nagar – 110041
- 2.0 CUSTOMER REFERENCE
- : IOCS Reg. No: CCDALCTTGPHL177437

Dated: 03.06.2024

3.0 DESCRIPTION OF TEST COMPONENT:

Component

ICAT Sample Identification

Manufactured by

- Trade Name/Trademark
- 4.0 DATE OF RECEIPT OF SAMPLES
- 5.0 CONDITION OF SAMPLES 6.0 FUNCTIONAL VERIFICATION
- 7.0 DATE OF PERFORMANCE TEST

- Alcolite Aluminum Road Stud, Qty: 3.Nos
- : ICAT/PHL/177437/RPM/RED-WHITE-YELLOW/01-

02-FACE/2024-25

- : Alcolite India Road Safety Pvt. Ltd.
 : Alcolite / Model No.: AL-108
- : 05.06.2024
- : No damage observed and found satisfactory.
- Functionality checked and found satisfactory.
- : 11.07.2024

8.0 OBJECTIVE AND PROCEDURE:

To conduct Retroreflectivity/Coefficient of Luminous Intensity as per Cl. No. 3.1.2 and 6.2.1 and Table No. 1 of ASTM D4280 on specific request of customer as a part of development exercise.

9.0 TESTRESULTS:

Please refer to Test Results and Photographs in Annexure-I and Annexure-II of this report, respectively.

Prepared By	Checked & Authorized By	Approved By	
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AKASH BISWAS	GIRISH SINGH	PRITAM SINGH SAWARIYA	Page
Asst. Manager	Dy. Manager	Sr. Manager	1 of 5 [177437]



Date:

11.07.2024

DISCLAIMER

- 1) This test report pertains only to the test samples / components / parts/ assemblies/ gensets/ materials /fuels/chemicals/engines/vehicles/Agri. Tractors etc. actually tested /witnessed / verified by ICAT in the presented condition based on the documents / information produced / submitted by the customer.
- 2) The issuance of this test report alone does not indicate any measure of approval, certification, supervision, COP, control of quality surveillance by ICAT of the test samples / items/ components.
- 3) No extract, abridgment or abstraction from this test report may be published or used to advertise the product without the written consent of the Director, ICAT, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought.
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Date:

11.07.2024

ANNEXURE -I

1.0 TEST RESULTS:

1.1.3 Retroreflectivity / Coefficient of Luminous Intensity (C.I.L.) (As per ASTM D4280-18, Cl. No. 3.1.2 and 6.2.1 and Table No. 1):

TEST RESULTS / OBSERVATION:

Sample Id: RED FACE#1 : ICAT/PHL/177437/RPM/RED/01-FACE/2024-25 & RED FACE#2 : ICAT/PHL/177437/RPM/RED/02-FACE/2024-25

Sample Id: WHITE FACE#1: ICAT/PHL/177437/RPM/WHITE/01-FACE/2024-25 &

WHITE FACE#2: ICAT/PHL/177437/RPM/WHITE/02-FACE/2024-25

Sample Id: YELLOW FACE#1 : ICAT/PHL/177437/RPM/YELLOW/01-FACE/2024-25 & YELLOW FACE#2 : ICAT/PHL/177437/RPM/YELLOW/02-FACE/2024-25

Entrance Angle)°	+20°		-20°	
Observat	tion Angle	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)
Colour:	Face #	343.0	70.0	179.4	28.0	172.4	28.0
Red	Face #	380.0	70.0	253.6	28.0	236.0	28.0

Entrance Angle)°	+20°		-20°	
Observat	tion Angle	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)
Colour:	Face #	1362.0	279.0	654.0	112.0	863.0	112.0
White	Face #	1249.0	279.0	627.0	112.0	490.0	112.0

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Date: 11.07.2024

Entrance Angle)°	+20°		-20°	
Observat	ion Angle	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)	0.2° (in mcd/lux)	Min. C.I.L. required. (in mcd/lux)
Colour:	Face #	1041.0	167.0	615.0	67.0	617.0	67.0
Yellow	Face #	1069.0	167.0	464.0	67.0	528.0	67.0

ANNEXURE –II Photographs of the Samples:



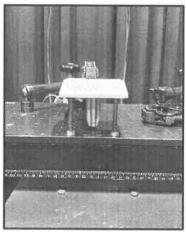
Sample Id: RED FACE#1 : ICAT/PHL/177437/RPM/RED/01-FACE/2024-25 & RED FACE#2 : ICAT/PHL/177437/RPM/RED/02-FACE/2024-25

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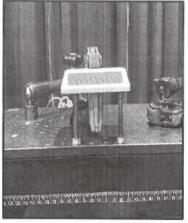


Date:

11.07.2024



Sample Id: WHITE FACE#1 : ICAT/PHL/177437/RPM/WHITE/01-FACE/2024-25 & WHITE FACE#2 :: ICAT/PHL/177437/RPM/WHITE/02-FACE/2024-25



Sample Id: YELLOW FACE#1 : ICAT/PHL/177437/RPM/YELLOW/01-FACE/2024-25 & YELLOW FACE#2 : ICAT/PHL/177437/RPM/YELLOW/02-FACE/2024-25

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