

INDUSTRIAL SAFETY HELMET TEST REPORT

AS PER EN 397:2012



Report No. :	Model:	Lighton-V	No. of Sample:	6 pcs	Logo:	UDYOGI
OCT2418/EN	Colour:	White	Date of testing	18.10.2024	Batch no.:	Oct-2024

Sl. No.	Test parameter	Reference	Acceptance criteria	Observed value	Result
1.	Materials and construction	EN 397 : 2012 Cl. 4.1	There shall no sharp edge, roughness or projection on any part of helmet, its accessories or attachment devices.	Satisfactory	Pass
2.	External vertical distance	EN 397 : 2012 Cl. 4.2	External vertical distance shall be not more than 80 mm	HF-530=55 mm HF-560=53 mm HF-570=51 mm	Pass
3.	Internal vertical clearance	EN 397 : 2012 Cl. 4.4	Internal vertical distance shall be not less than 25 mm	HF-530=41 mm HF-560=42 mm HF-570=34 mm	Pass
4.	Horizontal distance	EN 397 : 2012 Cl. 4.5	Horizontal distance shall be not less than 5 mm	18 mm	Pass
5.	Wearing height	EN 397 : 2012 Cl. 4.6	The wearing height shall be not less than; a) 80 mm for size 525 head form b) 85 mm for size 555 head form c) 90 mm for size 585 head form	HF-525=85 mm HF-555=86 mm HF-585=95 mm	Pass
6.	Shock absorption	EN 397 : 2012 Cl. 5.1.1	The force transmitted to the headform shall not exceed 5 kN, when tested after following conditioning; a) Low temperature at - 10°C for between 4 h and 24 h b) High temperature at 50 °C for between 4 h and 24 h c) Water immersion at 20 °C for between 4 h and 24 h	a) Hot- 1.54 kN b) Cold- 1.68 kN C) Water- 1.6 kN	pass
7.	Resistance to penetration	EN 397 : 2012 Cl. 5.1.2	The point of the striker shall not contact the surface of the head form, when tested after following conditioning; a) Low temperature at - 10°C for between 4 h and 24 h b) High temperature at 50 °C for between 4 h and 24 h c) Water immersion at 20 °C for between 4 h and 24 h	a) Hot- No contact made between striker and headform b) Cold- No contact made between striker and headform C) Water- No contact made between striker and headform	Pass
8.	Flame resistance	EN 397 : 2012 Cl. 5.1.3	The material shall not burn with emission of flame after a period of 5s has elapsed after removal of the flame. Test to be conducted on helmet tested for shock absorption test at +50 °C	Shell did not burn with the emission of flam after a period of 5 seconds has elapsed after removal of the flame.	Pass
9.	Chinstrap anchorage	EN 397 : 2012 Cl. 5.1.4	The artificial jaw shall be released at a force not less than 150 N and not more than 250 N. Test to be conducted on helmet tested for Penetration test at +50 °C	Load released by 190 N.	Pass
Tested By: Anish Dutta			Verified by: Antu Deb		