

**PRODUCT: HELMET WITH RATCHET-TYPE ADJUSTMENT**

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CONFORMING TO IS: 2925:1984  
& DGMS Certified

SL.No.	CLAUSE	DESCRIPTION	SPECIFICATION	
1	PHYSICAL PARAMETERS	GENERAL	DESIGN & FEATURES	<ul style="list-style-type: none"> <li>The TRIPLE CORRUGATION on the shell provides greater toughness thereby offering enhanced strength &amp; stronger protection.</li> <li>The anchoring points of the cradle are extra thick to ensure that there is no failure of the cradle in case of an impact.</li> <li>The walls of the Anchor points in the shell where the cradle is anchored are extra thick to prevent any damages to the anchor points upon impact.</li> </ul>
			MATERIAL	Polymer
			WEIGHT	340-360 gms
			SHOCK ABSORPTION	The function of a helmet is not only to provide protection to the user's head from a falling object but its capacity to reduce the impact which is defined as shock absorption capacity. The choice of material bearing a high degree of elasticity & softness for the molding of Cradle also enhances the Shock Absorption Capacity of the Shelmet.
			WEARER COMFORT & ERGONOMICS	<ul style="list-style-type: none"> <li>Forehead comfort pad consists of textile laminated foam sheet to provide extra softness &amp; comfort to the user.</li> <li>The comfort pad is non skin irritant.</li> <li>The four point attachment cradle within</li> </ul>

				<p>the shell has a unique angular placement to provide optimum shock absorption.</p> <ul style="list-style-type: none"> <li>• Shelmet is provided with side slots for fitting face and hearing protection accessories</li> <li>• The head band is made of non-irritant and soft fabric to provide maximum comfort to the user</li> <li>• Has adjustable chin strap</li> <li>• Has the Ratchet –type adjustment that can be set to the correct head size by pushing the hand-wheel in and turning it. The adjustment position is locked when the hand wheel is released.</li> </ul>
			COLOUR PREFERENCE	SHELMET” is the only Safety Helmet that offers more than 10 colours viz. White, Yellow, Blue, Sky Blue, Red, Green, Mt Green, Orange, Grey & Violet.
			HARNESS PREFERENCE	The Helmet inner Harness is available in options of webbing and polymer as per the customer need.
2	VITAL TEST COMPLIANCE AS PER IS2925:1984	CONDITIONING BEFORE TEST	VERY HOT CLIMATE	Placed at a Temperature of 50±5°C for 4 hours in an oven.
			VERY COLD CLIMATE	Placed at a temperature of -10±2°C for 4 hours in a refrigerator.
			HEAVY RAINFALL	Water flowing all over the surface at 1Ltr/min for 4 hours.
IS2925:1984	SHOCK ABSORPTION TEST			<p>A rectangular block having a horizontal striking surface of 180mm x 180mm weighing 3 kgs is allowed to fall freely over the helmet which is conditioned at above mentioned conditionings from a height of 1.5mtr ±5 mm. It is ensured that the force transmitted is not greater than 5 kN i.e 510 kgf.</p> <p>“SHELMET” complies with the above specification completely.</p>
IS2925:1984	PENETRATION RESISTANCE TEST			<p>The IS specification IS 2925:1984 says that if a striker of mass 500 gms with a conical steel point having an included angle of 36° and a spherical point radius is dropped on the helmet, mounted on the head form and conditioned at above mentioned conditioning, from a height of 3 mtr, the</p>

			<p>helmet's shell should not be pierced enough to allow the point to touch the head form &amp; the dent on Helmet shall not exceed 10mm.</p> <p>"SHELMET" complies with the above specification completely.</p>
IS2925:1984	FLAME RESISTANCE TEST		<p>IS 2925:1984 have framed certain specification for flame resistance. A blue flame is generated by a burner with temperature same as that of melting point of copper. This flame is exposed to the surface of the helmet at 45° angle for a period of 10 seconds and then the helmet is removed. It is ensured that the helmet does not catch fire within 5 seconds of removal of the flame. "SHELMET" complies with the above specification completely.</p>
IS2925:1984	HEAT RESISTANCE TEST		<p>IS 2925:1984 ensures a baseline conformity to heat resistance. The shell is placed in an oven for 15 minutes maintained at a constant temperature of 93±5°C. Upon removal from the oven, the shell should not separate, distort or soften. "SHELMET" successfully complies with this test.</p>
IS2925:1984	ELECTRICAL RESISTANCE TEST		<p>As per IS 2925:1984 standards an inverted helmet is placed into a container containing a solution chloride in water (6 gms/ltr.). The same solution is filled in the inside of the helmet as well. The helmet is allowed to stand for a period of 18-24 hours at room temperature. An A/C voltage of 2000 V is generated between two electrodes, and an ammeter connected in series. It is to be ensured that ammeter shall not show a leakage current in excess of 3 mA. Shelmet complies to this specification as well.</p>
IS2925:1984	CHIN STRAP ANCHORAGE TEST		<p>The IS specification says that the Chin Strap of Safety Helmet shall not break when a load of 10kgf is applied for 05 minutes and "SHELMET" successfully complies with the requirements.</p>

	IS2925:1984	WATER ABSORPTION TEST	<p>The IS specification says that the Safety Helmet shall not absorb water more than 5% of its mass when totally dipped into water for 24 hours and “SHELMET” successfully complies with the requirements.</p>
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