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## SHELMET PN 521



IS 2925:1984



CM/L-3242342

CERTIFIED TO IS 2925:1984

|   |                        |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---|------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PHYSICAL<br>PARAMETERS | DESIGN              | <ul style="list-style-type: none"> <li>The TRIPLE CORRUGATION on the shell provides greater toughness thereby offering enhanced strength and 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            | Polypropylene Co-polymer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|   |                        | WEIGHT              | 300 gms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|   |                        | SHOCK<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   |                        |                     | <ul style="list-style-type: none"> <li>Forehead comfort pad consists of textile laminated foam sheet to provide extra softness and comfort to the user. The comfort pad is non-skin irritant.</li> <li>The nape strap of the Shelmet has a very simple design consisting of locking holes in a row along with molded locking heads for a very easy adjustment of the headband.</li> <li>The four-point attachment cradle within the shell has a unique angular placement to provide optimum shock absorption.</li> <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>Comes with manual adjustment to suit most head sizes.</li> </ul> |

|   |                       |                             |                                                                                                                                                       |                                                                                                                                   |
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|   |                       | COLOUR PREFERENCE           | SHELMET™ is available in more than 10 colours viz. White, Yellow, Blue, Sky Blue, Red, Green, Mt Green, Orange, Grey, Violet and Fluorescent colours. |                                                                                                                                   |
|   |                       | HARNESS PREFERENCE          | The Helmet inner Harness is available in options of webbing and polymer as per customer's need.                                                       |                                                                                                                                   |
| 2 | VITAL TEST COMPLIANCE | CLIMATE CONDITION TEST      | VERY HOT CLIMATE (50°C)                                                                                                                               | Sustains a temperature of $50 \pm 5^\circ\text{C}$ for 4 hours in an oven.                                                        |
|   |                       |                             | VERY COLD CLIMATE (-10°C)                                                                                                                             | Sustains a temperature of $-10 \pm 2^\circ\text{C}$ for 4 hours in a refrigerator.                                                |
|   |                       |                             | HEAVY RAINFALL                                                                                                                                        | Water flowing all over the surface at a rate of 1Ltr/min for 4 hours.                                                             |
|   |                       | SHOCK ABSORPTION TEST       | AS PER IS 2925:1984                                                                                                                                   | Sustains a free fall weight of 3 kgs. from a height of 1.5Mtr $\pm$ 5mm.                                                          |
|   |                       | PENETRATION RESISTANCE TEST | AS PER IS 2925:1984                                                                                                                                   | Sustains an impact of pointed conical steel plumb bob having mass of 500 gm dropped on the helmet from a clear height of 3.0 Mtr. |
|   |                       | FLAME RESISTANCE TEST       | AS PER IS 2925:1984                                                                                                                                   | Does not catch fire within 5 seconds of removal of the flame.                                                                     |
|   |                       | CHIN STRAP ANCHORAGE TEST   | AS PER IS 2925:1984                                                                                                                                   | Sustains the hanging weight of 10 Kgs for 10min                                                                                   |
|   |                       | HEAT RESISTANCE TEST        | AS PER IS 2925:1984                                                                                                                                   | No Separation, distortion & softening of helmet when placed at temperature of $93 \pm 5^\circ\text{C}$ for 15Min.                 |
|   |                       | ELECTRICAL RESISTANCE TEST  | AS PER IS 2925:1984                                                                                                                                   | Sustains 2000 volts for 01 min.                                                                                                   |