



IS 9562 : 1980 'Specification for Non-Metal Helmet for Police Force'

The document IS 9562 : 1980 specifies requirements for **non-metal helmets** designed for **police use**. It details material, construction, and testing requirements to ensure effective head protection for police in situations such as **riot control**.

This non-metal helmet is built to withstand impacts from blunt objects and other hazards encountered during active duty. It includes a **hard outer shell** made of impact-resistant, non-metallic materials, **protective padding of expanded polystyrene**, and a **retention system** with a headband, chin strap, and cradle for secure fitting.

Consumers expect high **shock absorption**, **penetration resistance**, and **flame resistance** and **good retention system**. This standards gives specifications for head band, chin strap, cradle, neck protector, visor for facial protection aiming for better retention system.

This standard mandates performance tests:

- a) **Shock Absorption** – Maximum transmitted force must not exceed 20 kN under various temperature and durations.
- b) **Penetration Resistance** – Two methods used are plate load test & plumb bob
- c) **Water Absorption** – Helmets should absorb less than 5 percent of their mass in water.

Other tests, which are included are Strength of Retention System, Rigidity Test, Firing Test, Flammability Resistance.

This standard ensures police helmets provide **reliable safety** and durability under various field conditions.