IS 7834 (Part 1 to 8):1987 - Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies

The Indian Standard IS 7834:1987 specifies requirements for injection-moulded PVC socket fittings with solvent cement joints for water supplies. These fittings are crucial for **transporting potable water, preventing contamination, and minimizing leakage**. Good quality PVC socket fittings should possess **dimensional accuracy**, **material integrity**, **chemical resistance**, **hydrostatic strength**, **thread quality**, and **corrosion resistance**. These parameters ensure safe, durable, and reliable connections.

IS 7834:1987 addresses these quality parameters through stringent specifications. Key specifications include materials conforming to IS 4985, dimensions outlined in Parts 1 to 8, **pressure rating up to 12.5 kg/cm²**, and **temperature range of 1°C to 45°C**. The standard also specifies solvent cement joints and **tolerances for dimensions**. Packaging requirements prevent damage during transportation and storage. Sampling and testing protocols include **hydrostatic pressure tests, chemical resistance tests, impact tests, dimensional inspections, and solvent cement joint tests**.

The **Ministry of Consumer Affairs, Food and Public Distribution** notifies this standard as a compulsory requirement. Adherence ensures conformity to public health and safety regulations. Manufacturers must comply with IS 7834:1987 to demonstrate compliance with Indian regulatory requirements. By adhering to this standard, manufacturers guarantee the quality and reliability of PVC socket fittings for **water supply systems**, ensuring safe and **healthy drinking water**.