



Indian Standard IS 1258:2024-Bayonet lampholders (Fifth Revision)

Bayonet Lampholders: Uses, Desirable Properties, and Testing Requirements

Uses:

Bayonet lampholders are devices used to support and connect B15d and B22d lamp caps to a power supply of up to 250V. They are used in residential, commercial, and industrial lighting systems, as well as in appliances and luminaires, where they enable easy lamp replacement and secure electrical connection.

Desirable Properties:

Bayonet lampholders must be mechanically robust, electrically safe, and thermally resistant. They should provide effective insulation, prevent electric shock, and offer resistance to moisture, heat, fire, and corrosion. Their design should ensure proper insertion and removal of lamps without damaging the holder or lamp cap.

Testing Requirements:

Comprehensive tests for bayonet lampholders include checks for mechanical strength, resistance to electric shock, moisture ingress (IP rating), insulation resistance, electrical strength, and heat resistance. Other critical tests cover protection against fire and tracking, mechanical stress (like pulling and twisting), and resistance to corrosion, rust, and season cracking, ensuring safety, durability, and reliability in diverse operating conditions.