## **Indian Standard (IS 15748:2022) - Protective Clothing for Heat and Flame**

**Protective clothing** is essential for workers exposed to **heat and flame** hazards in industrial settings. This is designed to safeguard the wearer's body, except hands, against heat, flames, and molten metal splashes.

Consumers expect protective clothing to be heat-resistant, durable, and comfortable. Key quality parameters include flame retardancy, high tensile strength, resistance to molten metal splashes, and breathability to allow moisture wicking.

This standard IS 15748:2022, specifies performance requirements for protective clothing made from flexible materials, which are designed to protect the wearer's body, except the hands, from heat and/or flame. For protection of the wearer's head and feet, the only items of protective clothing are gaiters, hoods, and overboots.

This standard covers the general and the design requirements and additional design requirements for molten splash protective garments. The method of sampling, Pre-treatment, aging and conditioning temperature and humidity. General performance requirements includes Heat resistance at a temperature of  $(180 \pm 5)$  °C and  $(260 \pm 5)$  °C, flame spread etc. the various physical requirements include **Tensile strength**, tear, burst and seam strength and also Heat transmission performance requirements are specified.

By adhering to IS 15748:2022, manufacturers ensure their **flame-resistant clothing** meets industry standards for safety, providing workers with **reliable protection** in high-risk environments.