



## **IS 16655 : 2017 - Textiles - Protective clothing for use in welding and allied processes**

**Protective clothing** is to shield wearer from potential dangers like burns, sparks, spatter, electric shock, and radiation.

**IS 16655:2017** is an Indian Standard that specifies the requirements for protective clothing designed for use in **welding** and **allied** processes. This standard aims to ensure the **safety and protection of workers** from various hazards associated with **welding operations**, including short-term **exposure to heat, sparks, molten metal, and heat transfer by radiation**.

The standard outlines essential criteria for the materials used in protective clothing, emphasizing their durability, flame resistance, and thermal insulation properties. It specifies the types of fabrics suitable for **welding protective gear**, which must be capable of withstanding temperatures and preventing burns or injuries. Additionally, the standard addresses the **design and construction** of the clothing, ensuring that it provides adequate coverage and protection without compromising the wearer's mobility and comfort.

IS 16655:2017 also includes guidelines for testing methods to evaluate the performance of the protective clothing, focusing on aspects such as heat resistance, flame spread, and the ability to withstand mechanical stresses. By establishing these specifications, the standard aims to promote the use of high-quality protective gear that meets **safety regulations and industry best practices**.

Overall, IS 16655:2017 serves as a crucial reference for manufacturers, employers, and safety professionals in the welding industry. It helps ensure that protective clothing is effective in safeguarding workers' health and safety, thereby contributing to a **safer working environment** in welding and related processes.