

IS 5915: 1970 - specification for single texture rubberized waterproof fabrics.

Indian Standard IS 5915: 1970 specifies the requirements for *single-texture rubberized waterproof fabrics*. Single texture rubberized fabrics coated on one or both sides are used for making a variety of articles, such as rain coats, waterproof shoes, gloves, caps and waterproof covering for infant and sick beds. Acid and alkali resistant rubberized fabrics are used for making laboratory aprons. The standard outlines the characteristics of these fabrics, including the type of rubber coating, the weight of the fabric, and its waterproofing capacity. The rubberized coating on one side of the fabric provides resistance to water, while the base fabric is typically made of cotton or polyester. This standard ensures that the fabric can withstand different environmental conditions while maintaining its functional and aesthetic properties.

Consumers expect several key qualities from single-texture rubberized waterproof fabrics. These include excellent water resistance, durability against physical wear and tear, and long-lasting performance under varying weather conditions. The fabric should also maintain its flexibility and integrity over time, resisting cracking or peeling of the rubber coating. Furthermore, consumers expect the material to have high tensile strength to avoid tearing under stress, and a smooth surface finish that allows for easy handling and deployment. The fabric should be lightweight yet strong, providing ease of transport and installation, and should not absorb moisture or deteriorate under exposure to the elements.

IS 5915: 1970 addresses these consumer expectations by specifying the required properties of both the base fabric and the rubber coating. The standard defines the minimum weight, tensile strength, elongation at break, and waterproofing specifications for the fabric. It also includes guidelines on the rubber coating's thickness, elasticity, and resistance to aging, ensuring that the material remains durable and functional over time. Furthermore, IS 5915: 1970 provides test methods to verify the fabric's performance, such as its resistance to water penetration, physical wear, and the ability to retain its rubberized finish under environmental stress. By adhering to these specifications, manufacturers can produce rubberized fabrics that meet the necessary quality standards for waterproofing applications.

Bureau of Indian Standards