

IS 17423 : 2021 Medical Textiles — Bio-Protective Coveralls — Specification (First Revision)

Coverall is a type of **personal protective equipment (PPE)** intended to be worn by healthcare personnel for the purpose of isolating all parts of the body from a potential hazard. The bio-protective coveralls provide **protection** against various biological agents due to their material sealing arrangements.

The **Indian Standard IS 17423:2021** developed by Bureau of Indian Standards, specifies the requirements for **single use** and **reusable bio-protective coveralls** intended for medical use. Quality parameters critical to users include resistance to **blood and viral penetration, tensile strength, microbial cleanliness, breathability, seam strength, bursting strength** and **biocompatibility**.

To meet these quality expectations, the standard specifies detailed requirements such as **material composition, manufacturing techniques**, and multi-layered textile structures engineered for both single-use and reusable options. Additionally, it provides four **performance levels** for various conditions, allowing customization based on anticipated exposure **risks**. The document also includes guidelines for **reprocessing reusable coveralls**, ensuring they maintain their protective quality after multiple cycles of washing, disinfection, and sterilization.

Packaging clause mentions requirements for coverall packing securely to allow normal handling and transport without tearing and exposing the contents and to maintain the **integrity** of the product. Testing and sampling procedures are detailed for consistency and **compliance**, ensuring that products meet the **safety** standards.