

The Effect of using Multilayer Fabric in Controlling Water Permeability of some Protective Textiles

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Abstract:

Textiles are an essential component of the effective protection provided against many hazards such as chemicals, fire, and biological threats. When selecting a protective textiles, there are many factors to consider, such as the application type, level of protection, breathability, type of chemicals, cost, productivity, durability, and acceptance. In addition, textile design and the presence of air gaps, as well as textile's physical characteristics like thermal resistance, water absorption, and moisture transfer, play a significant effect. This research presents a study concerning using multi-layer fabrics as a factor for controlling the water permeability of some protective fabrics.

Keywords:

Technical Textiles, Protective Textiles, Water Permeability, Multilayer Fabrics

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Paper History:

Paper received December 21, 2023, Accepted February 12, 2024, Published on line May 1, 2024