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Protective clothing — Protection against liquid chemicals — Measurement of repellency, retention, and penetration of liquid pesticide formulations through protective clothing materials

Vêtements de protection — Protection contre les produits chimiques liquides — Mesurage de la répulsion, de la rétention et de la pénétration des formulations de pesticides liquides à travers les matériaux des vêtements de protection



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Foreword

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Introduction

The health and safety of workers involved in the mixing, loading and application of liquid pesticides can be affected by dermal exposure to liquid pesticide formulations. Use of protective clothing can assist in minimizing the danger of contact with potentially harmful pesticides. Nonporous materials that provide excellent protection to the user are usually not suitable for many environments where there is a potential for heat stress. Therefore, garments made of porous materials that can provide a balance between risk from pesticide exposure and user comfort can be used as personal protective equipment (PPE) for workers.

The movement of liquid pesticides through these materials is primarily due to penetration through spaces between fibres and interstices between yarns. As these materials provide protection either by repelling or retaining liquid pesticide, the measurement of these properties are also important. This test method is used to measure repellency, retention, and penetration of liquid pesticides through protective clothing materials.