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Third edition
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Protective clothing — Protection against liquid chemicals — Test method for resistance of materials to penetration by liquids

Vêtements de protection — Protection contre les produits chimiques liquides — Méthode d'essai pour la résistance des matériaux à la pénétration par des liquides



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6530 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets*, in collaboration with Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 13, *Protective clothing*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 6530:1990), which has been technically revised.

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Introduction

This International Standard specifies a test method for measuring indices of penetration, absorption and repellency for protective clothing materials against low-volume, low-pressure splashes of liquid chemicals, usually chemicals of low volatility. ISO 13994 may be used for determining the penetration resistance of protective clothing materials against chemicals in larger volume and higher pressure splashes.

Clothing made of these materials should not be used as the sole means of protection where resistance to permeation by chemicals at the molecular level (see ISO 6529) is essential and where a complete barrier to liquid (or gaseous) chemicals is required (e.g. risk of exposure to massive and forceful discharges of concentrated liquid chemicals).

Data obtained by this test method may be used as a guide for screening protective clothing materials. Clothing, which has been developed from materials selected by this method of test should be used, therefore, only in well-defined circumstances when an evaluation of the finished item has indicated an acceptable level of performance (in laboratory and field-testing of a garment, consideration of exposure levels to specified chemicals, etc.).

In interpreting the results of the test method, the influences of the physical properties of the test chemical (e.g. volatility) should also be taken into consideration.