

Protective clothing — Determination of resistance to penetration by sprayed liquid chemicals, emulsions and dispersions — Atomizer test

The European Standard EN 14786:2006 has the status of a British Standard

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National foreword

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The UK participation in its preparation was entrusted by Technical Committee PH/3, Protective clothing, to Subcommittee PH/3/3, Protective clothing from chemicals and radioactive contamination , which has the responsibility to:

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Vêtements de protection - Détermination de la résistance à
la pénétration par les produits chimiques liquides
pulvérisés, les émulsions et les dispersions - Essai de
pulvérisation

Schutzkleidung - Bestimmung des Widerstandes gegen
Durchdringung von flüssigen gespritzten Chemikalien,
Emulsionen und Dispersionen - Spritzverfahren

This European Standard was approved by CEN on 16 March 2006.

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Foreword

This European Standard (EN 14786:2006) has been prepared by Technical Committee CEN/TC 162 “Protective clothing including hand and arm protection and lifejackets”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 89/686/EEC.

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this European Standard.

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Introduction

This European standard specifies a test method to measure a penetration index for protective clothing materials against atomized emulsions and dispersions of liquid chemicals, e.g. pesticides used in agricultural crop spraying. The data may be used as a guide for screening protective clothing materials but the results of the test are affected by the physical properties of the test chemical, e.g. low volatility chemicals.

Clothing, which has been developed from materials selected by means of this method of test, should be used only in well-defined circumstances, i.e. when an evaluation of the finished item has indicated an acceptable level of performance (e.g. in laboratory and field testing of a garment, consideration of exposure levels to specified chemicals etc.).

Clothing made of these materials is not for use as the sole means of protection where resistance to permeation by chemicals at the molecular level (to be determined by EN 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).

The potential performance levels of materials as assessed by the test method described in this standard are intended to be used in product specifications for protective apparel against atomized liquids, emulsified and dispersed chemicals.