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AMENDMENT 1
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**Protective clothing — Test methods
for clothing providing protection
against chemicals —**

Part 4:
**Determination of resistance to
penetration by a spray of liquid
(spray test)**

AMENDMENT 1

*Vêtements de protection — Méthodes d'essai pour les vêtements
fournissant une protection contre les produits chimiques —*

*Partie 4: Détermination de la résistance à la pénétration par
vaporisation de liquide (essai au brouillard)*

AMENDEMENT 1



Reference number
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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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The committee responsible for this document is ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 13, *Protective clothing* and by Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets* in collaboration.

Introduction

This amendment is intended to update 8.2 to allow better calibration of the test method and to ensure only SI-Units are used in this part of ISO 17491.

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Part 4:

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Subclause 8.1, 2nd paragraph, last sentence

Replace:

“Therefore, an opening valve, which opens at $(3^{+0,5}_{-0})$ bar, should be used.”

by:

“Therefore, an opening valve, which opens at (300^{+50}_{-0}) kPa, shall be used.”

Subclause 8.1, NOTE 2, 1st sentence

Replace:

“Minor adjustments to obtain the required output can be made by increasing or decreasing the pressure at each nozzle by a maximum of 0,2 bar.”

by:

“Minor adjustments to obtain the required output can be made by increasing or decreasing the pressure at each nozzle by a maximum of 20 kPa.”

Subclause 8.2, Alignment of spray nozzles

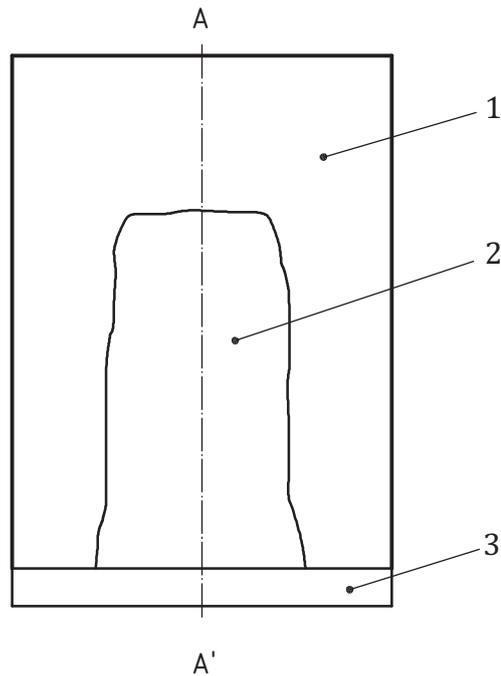
Replace by:

The spray emission from nozzles shall be directed horizontally and perpendicular to the target sheet at a distance of $(1,5 \pm 0,1)$ m and produce a spray pattern that is symmetrical along a vertical line through the centre point of the turntable.

The correct alignment of the nozzles can be checked with a target sheet to confirm the spray pattern. This target sheet is water-absorbing with $1 \text{ m} \times 2,1 \text{ m}$ or more and is placed vertically at 90° to the nozzle outlet and at the centre point of the turntable. The spray should form a pattern of liquid on the target sheet, distributed symmetrically along a vertical line through the centre point of the turntable.

(See [Figure 2](#).)

The difference between the centre line of the target sheet and the centre line of the spray pattern should be a maximum of 10 cm. If this is not the case, adjustment should be made.



Key

- 1 water-absorbing sheet
 - 2 spray pattern on the target fabric
 - 3 turntable
- AA' axis line through the centre of the turntable

Figure 2 — Checking the alignment of the nozzles (schematic representation)

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