

SLOVENSKI STANDARD oSIST prEN ISO 24231:2023

01-marec-2023

Varovalna obleka - Zaščita pred dežjem - Metoda preskušanja za že izdelana oblačila glede učinka kapljic, ki z veliko energijo padajo od zgoraj (ISO/DIS 24231:2023)

Protective clothing - Protection against rain - Test method for ready-made garments against high energy droplets from above (ISO/DIS 24231:2023)

Schutzkleidung - Schutz gegen Regen - Prüfverfahren für fertige Bekleidungsteile gegen Tropfen von hoher Energie von oben (ISO/DIS 24231:2023)

Habillement de protection - Protection contre la pluie - Méthode d'essai pour les vêtements prêts à porter contre l'impact de fortes précipitations (ISO/DIS 24231:2023)

Ta slovenski standard je istoveten z: prEN ISO 24231

ICS:

13.340.10Varovalna obleka59.080.01Tekstilije na splošno

Protective clothing Textiles in general

oSIST prEN ISO 24231:2023

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DRAFT INTERNATIONAL STANDARD ISO/DIS 24231

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Protective clothing — Protection against rain — Test method for ready-made garments against high-energy droplets from above

Habillement de protection - Protection contre la pluie - Méthode d'essai pour les vêtements prêts à porter contre l'impact de fortes précipitations

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ISO/DIS 24231:2022(E)

Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 94, Personal safety – Personal protective equipment, Subcommittee SC 13, Protective clothing.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

ISO/DIS 24231:2022(E)

Introduction

This document (ISO DIS 24231: 2022) specifies a test method for determining the rain tightness of clothing for protection against rain, using a static manikin exposed to artificial rain. It is applicable to the testing of jackets, trousers, coats and one- or two-piece suits.

This document is not applicable to the testing of garments for resistance to other weather conditions, e.g. snow, hail-, or strong winds.

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Protective clothing — Protection against rain — Test method for ready-made garments against high-energy droplets from above

1 Scope

This document specifies a test method for determining the liquid tightness of clothing for protection against rain, using a static manikin exposed to large amount of high energy droplets from above. It is applicable to the testing of jackets, trousers, coats and one- or two-piece suits.

This document is not applicable to the testing of garments for resistance to other weather conditions, e.g. snow, hail-, or strong winds.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/DIS 11610, Protective clothing — Vocabulary

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 11610 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at <u>https://www.electropedia.org/</u>

4 Principle

A manikin with the shape and size of an adult person wearing long underwear made of absorbent fabric is dressed in the protective garment to be tested and exposed to large amount of high energy droplets from above for a specific period. After the exposure the underwear and the inner side of the protective garment are visually inspected for wet areas. In addition, sensors on the manikin may be used in order to detect the timing of water ingress at individual sites.



Key

- 1 water filling pipe
- 2 droplets
- 3 manikin
- 4 sensors
- 5 protection wall

- 6 nozzles
- 7 movable tube
- 8 water tub
- 9 overflow pipe

Figure 1 — Example of a tower device