

SLOVENSKI STANDARD
oSIST prEN ISO 14505-2:2025
01-julij-2025

**Ergonomija toplotnega okolja - Vrednotenje toplotnega okolja v vozilih - 2. del:
Ugotavljanje ekvivalentne temperature (ISO/DIS 14505-2:2025)**

Ergonomics of the thermal environment - Evaluation of thermal environments in vehicles
- Part 2: Determination of equivalent temperature (ISO/DIS 14505-2:2025)

Ergonomie der thermischen Umgebung - Beurteilung der thermischen Umgebung in
Fahrzeugen - Teil 2: Bestimmung der Äquivalenttemperatur (ISO/DIS 14505-2:2025)

Ergonomie des ambiances thermiques - Évaluation des ambiances thermiques dans les
véhicules - Partie 2: Détermination de la température équivalente (ISO/DIS 14505-
2:2025)

Ta slovenski standard je istoveten z:[prEN ISO 14505-2](https://standards.iteh.ai/catalog/standards/sist/72b22f94-b0c2-4bb7-ae0d-e5a8ab706fc9/osit-pren-iso-14505-2-2025)

<https://standards.iteh.ai/catalog/standards/sist/72b22f94-b0c2-4bb7-ae0d-e5a8ab706fc9/osit-pren-iso-14505-2-2025>

ICS:

13.180	Ergonomija	Ergonomics
43.020	Cestna vozila na splošno	Road vehicles in general

oSIST prEN ISO 14505-2:2025

en,fr,de



DRAFT International Standard

ISO/DIS 14505-2

Ergonomics of the thermal environment — Evaluation of thermal environments in vehicles —

Part 2: Determination of equivalent temperature

Ergonomie des ambiances thermiques — Évaluation des ambiances thermiques dans les véhicules —

Partie 2: Détermination de la température équivalente

<https://standards.iteh.ai/catalog/standards/sist/72b22f94-b0c2-4bb7-ae0d-e5a8ab706fc9/osist-pren-iso-14505-2-2025>

ICS: 13.180; 43.020

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING

ISO/TC 159/SC 5

Secretariat: **BSI**

Voting begins on:
2025-05-01

Voting terminates on:
2025-07-24

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENTS AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

ISO/DIS 14505-2:2025(en)

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[oSIST prEN ISO 14505-2:2025](#)

<https://standards.iteh.ai/catalog/standards/sist/72b22f94-b0c2-4bb7-ae0d-e5a8ab706fc9/osist-pren-iso-14505-2-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO/DIS 14505-2:2025(en)

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Assessment principles	2
4.1 General description of equivalent temperature	2
4.2 General determination principle of equivalent temperature	3
5 Specific equivalent temperatures	4
5.1 General	4
5.2 Whole body equivalent temperature	4
5.2.1 Determination principle	4
5.2.2 Calculation	4
5.3 Segmental equivalent temperature	5
5.3.1 Determination principle	5
5.3.2 Calculation	5
5.4 Directional equivalent temperature	5
5.4.1 Determination principle	5
5.4.2 Calculation	5
5.5 Omnidirectional equivalent temperature	6
5.5.1 Determination principle	6
5.5.2 Calculation	6
6 Measuring instruments	7
7 Assessment	7
7.1 Determination of whole body equivalent temperature	7
7.1.1 Determination with omnidirectional sensors	8
7.1.2 Determination with a thermal manikin	8
7.2 Determination of local equivalent temperature	8
7.2.1 Determination with omnidirectional sensors or flat, heated sensors	8
7.2.2 Determination with a thermal manikin	8
8 Equivalent contact temperature $t_{eq,cont}$	8
Annex A (informative) Examples of measuring instruments	12
Annex B (informative) Characteristics and specifications of measuring instruments	15
Annex C (informative) Calibration and other determinations	21
Annex D (informative) Interpretation of equivalent temperature	23
Annex E (informative) Examples	27
Bibliography	30