

STN	Geosyntetika Zisťovanie trecích vlastností Časť 2: Skúška na naklonenej rovine (ISO 12957-2: 2024)	STN EN ISO 12957-2 80 6192
------------	---	--

Geosynthetics - Determination of friction characteristics - Part 2: Inclined plane test (ISO 12957-2:2024)

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/25

Obsahuje: EN ISO 12957-2:2024, ISO 12957-2:2024

Oznámením tejto normy sa ruší

STN EN ISO 12957-2 (80 6192) z augusta 2005

140240

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025

Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 12957-2

December 2024

ICS 59.080.70

Supersedes EN ISO 12957-2:2005

English Version

Geosynthetics - Determination of friction characteristics -
Part 2: Inclined plane test (ISO 12957-2:2024)

Géosynthétiques - Détermination des caractéristiques
de frottement - Partie 2: Essai sur plan incliné (ISO
12957-2:2024)

Geokunststoffe - Bestimmung der
Reibungseigenschaften - Teil 2: Schiefe-Ebene-Versuch
(ISO 12957-2:2024)

This European Standard was approved by CEN on 1 December 2024.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 12957-2:2024 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 12957-2:2024) has been prepared by Technical Committee ISO/TC 221 "Geosynthetics" in collaboration with Technical Committee CEN/TC 189 "Geosynthetics" the secretariat of which is held by NBN.

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 June 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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

This document supersedes EN ISO 12957-2:2005.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 12957-2:2024 has been approved by CEN as EN ISO 12957-2:2024 without any modification.



International Standard

ISO 12957-2

Geosynthetics — Determination of friction characteristics —

Part 2: Inclined plane test

*Géosynthétiques — Détermination des caractéristiques de
frottement —*

Partie 2: Essai sur plan incliné

Second edition 2024-12

ISO 12957-2:2024(en)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

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

Contents		Page
Foreword.....		iv
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	1
4	Principle.....	2
5	Test specimens.....	3
5.1	Sampling and preparation of test specimen.....	3
5.2	Number and dimensions of test specimens.....	3
6	Conditioning.....	3
7	Apparatus.....	3
7.1	General.....	3
7.2	Rigid base apparatus.....	3
7.2.1	Rigid base.....	3
7.2.2	Upper soil box.....	5
7.3	Soil filled base apparatus.....	6
7.3.1	Lower soil box.....	6
7.3.2	Upper soil box.....	7
7.4	Application of the normal force (for both types of apparatus).....	7
7.5	Soil.....	8
7.6	Calibration of the apparatus.....	8
8	Procedure.....	8
9	Calculations.....	9
9.1	Apparatus with a roller supported upper box.....	9
9.2	Apparatus with an upper box not supported on rollers.....	9
10	Test report.....	10

ISO 12957-2:2024(en)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 221 *Geosynthetics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 189, *Geosynthetics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 12957-2:2005) which has been technically revised.

The main changes are as follows:

- minor modifications, notably in the terms and definitions;
- improvement of figures.

A list of all parts in the ISO 12957 series can be found on the ISO website.

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 www.iso.org/members.html.

Geosynthetics — Determination of friction characteristics —

Part 2: Inclined plane test

1 Scope

This document specifies a method to determine the friction characteristics of geosynthetics (geotextiles and geotextile-related products, geosynthetic barriers) in contact with soils or another geosynthetic, at low normal stress, using an inclining plane apparatus.

This test method is primarily intended as a performance test to be used with site specific soils but is also used as an index test with standard sand. It is also possible to measure the displacement of the interface over time (creep phenomenon) without necessarily reaching the slippage failure.

NOTE Test data obtained for geogrids tested with a rigid support are not necessarily realistic as the results depend on the friction support.

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 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 6344-2, *Coated abrasives — Determination and designation of grain size distribution — Part 2: Macrogrit sizes P12 to P220*

ISO 9862, *Geosynthetics — Sampling and preparation of test specimens*

ISO 10318-1, *Geosynthetics — Part 1: Terms and definitions*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN