

SLOVENSKI STANDARD

SIST EN ISO 11551:2026

01-oktober-2026

Nadomešča:

SIST EN ISO 11551:2020

Optika in optični instrumenti - Laserji in laserska oprema - Preskusna metoda za absorpcijo optičnih laserskih komponent (ISO 11551:2026)

Optics and photonics - Lasers and laser-related equipment - Test method for absorbance of optical laser components (ISO 11551:2026)

Optik und Photonik - Laser und Laseranlagen - Prüfverfahren für den Absorptionsgrad von optischen Laserkomponenten (ISO 11551:2026)

Optique et photonique - Lasers et équipements associés aux lasers - Méthode d'essai du facteur d'absorption des composants optiques pour lasers (ISO 11551:2026)

Ta slovenski standard je istoveten z: EN ISO 11551:2026

ICS:

31.260

Optoelektronika, laserska
oprema

Optoelectronics. Laser
equipment

SIST EN ISO 11551:2026

en,fr,de

Sample Document

get full document from standards.iteh.ai

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11551

August 2026

ICS 31.260

Supersedes EN ISO 11551:2019

English Version

**Optics and photonics - Lasers and laser-related equipment
- Test method for absorptance of optical laser components
(ISO 11551:2026)**

Optique et photonique - Lasers et équipements
associés aux lasers - Méthode d'essai du facteur
d'absorption des composants optiques pour lasers (ISO
11551:2026)

Optik und Photonik - Laser und Laseranlagen -
Prüfverfahren für den Absorptionsgrad von optischen
Laserkomponenten (ISO 11551:2026)

This European Standard was approved by CEN on 22 August 2026.

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

© 2026 CEN All rights of exploitation in any form and by any means reserved
worldwide for CEN national Members.

Ref. No. EN ISO 11551:2026 E

Contents	Page
European foreword.....	3

Sample Document

get full document from standards.iteh.ai

European foreword

This document (EN ISO 11551:2026) has been prepared by Technical Committee ISO/TC 172 "Optics and photonics" in collaboration with Technical Committee CEN/TC 123 "Lasers and photonics" 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 February 2027, and conflicting national standards shall be withdrawn at the latest by February 2027.

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 11551:2019.

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 11551:2026 has been approved by CEN as EN ISO 11551:2026 without any modification.

Sample Document

get full document from standards.iteh.ai



**International
Standard**

ISO 11551

**Optics and photonics — Lasers and
laser-related equipment — Test
method for absorptance of optical
laser components**

*Optique et photonique — Lasers et équipements associés aux
lasers — Méthode d'essai du facteur d'absorption des composants
optiques pour lasers*

**Fourth edition
2026-08**

get full document from standards.iteh.ai

ISO 11551:2026(en)

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2026

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 2026 – All rights reserved

ISO 11551:2026(en)

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and units of measure	1
5 Preparation of test sample and measuring arrangement	2
6 Characteristic features of the laser radiation	4
7 Test procedure	5
7.1 General	5
7.2 Calibration	5
7.2.1 Calibration of the radiant power signal	5
7.2.2 Calibration of the temperature signal	5
7.2.3 Calibration of the thermal response	5
7.2.4 Measurement of the background signal	6
7.3 Determining the absorptance	6
8 Evaluation	6
8.1 General	6
8.2 Elimination of drift	7
8.3 Exponential method	7
8.4 Pulse method	8
9 Test report	9
Annex A (informative) Effects changing absorptance	11
Annex B (informative) Influence of signal distortions	14
Annex C (informative) Algorithm for parameterizing the temperature data	17
Bibliography	18