

SLOVENSKI STANDARD

SIST EN ISO 18563-2:2017

01-december-2017

Nadomešča:
SIST EN 16392-2:2014

Neporušitvene preiskave - Karakterizacija in preverjanje ultrazvočne opreme faznih sistemov - 2. del: Sonde (ISO 18563-2:2017)

Non-destructive testing - Characterization and verification of ultrasonic phased array equipment - Part 2: Probes (ISO 18563-2:2017)

Zerstörungsfreie Prüfung - Charakterisierung und Verifizierung der Ultraschall-Prüfausrüstung mit phasengesteuerten Arrays - Teil 2: Prüfköpfe (ISO 18563-2:2017)
(standards.iteh.ai)

Essais non destructifs - Caractérisation et vérification de l'appareillage de contrôle par ultrasons en multiéléments - Partie 2: Traducteurs (ISO 18563-2:2017)
[a06638d0f8c0/sist-en-iso-18563-2-2017](http://standards.iteh.ai/datasheets/standards/iso/iso-18563-2-2017-a06638d0f8c0/sist-en-iso-18563-2-2017)

Ta slovenski standard je istoveten z: EN ISO 18563-2:2017

ICS:

19.100 Neporušitveno preskušanje Non-destructive testing

SIST EN ISO 18563-2:2017

en,fr,de

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

SIST EN ISO 18563-2:2017

<https://standards.iteh.ai/catalog/standards/sist/dc2793f9-aad6-460f-ab73-a06638d0f8c0/sist-en-iso-18563-2-2017>

**EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM**

EN ISO 18563-2

August 2017

ICS 19.100

Supersedes EN 16392-2:2014

English Version

**Non-destructive testing - Characterization and verification
of ultrasonic phased array equipment - Part 2: Probes (ISO
18563-2:2017)**

Essais non destructifs - Caractérisation et vérification
de l'appareillage de contrôle par ultrasons en
multiéléments - Partie 2: Traducteurs (ISO 18563-
2:2017)

Zerstörungsfreie Prüfung - Charakterisierung und
Verifizierung der Ultraschall-Prüfausrüstung mit
Phased-Arrays - Teil 2: Prüfköpfe (ISO 18563-2:2017)

This European Standard was approved by CEN on 3 May 2017.

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.

**The STANDARD PREVIEW
(standardsite.ch.ai)**

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.

[SIST EN ISO 18563-2:2017](#)

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



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
European foreword.....	3

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 18563-2:2017](#)
<https://standards.iteh.ai/catalog/standards/sist/dc2793f9-aad6-460f-ab73-a06638d0f8c0/sist-en-iso-18563-2-2017>

European foreword

This document (EN ISO 18563-2:2017) has been prepared by Technical Committee ISO/TC 135 “Non-destructive testing” in collaboration with Technical Committee CEN/TC 138 “Non-destructive testing” the secretariat of which is held by AFNOR.

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 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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 16392-2:2014.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

iTeh STANDARD PREVIEW
Endorsement notice
(standards.iteh.ai)

The text of ISO 18563-2:2017 has been approved by CEN as EN ISO 18563-2:2017 without any modification.

SIST EN ISO 18563-2:2017

<https://standards.iteh.ai/catalog/standards/sist/dc2793f9-aad6-460f-ab73-a06638d0f8c0/sist-en-iso-18563-2-2017>

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

SIST EN ISO 18563-2:2017

<https://standards.iteh.ai/catalog/standards/sist/dc2793f9-aad6-460f-ab73-a06638d0f8c0/sist-en-iso-18563-2-2017>

INTERNATIONAL
STANDARD

ISO
18563-2

First edition
2017-07

**Non-destructive testing —
Characterization and verification of
ultrasonic phased array equipment —**

**Part 2:
Probes**

iTeh STANDARD REVIEW
*Essais non destructifs — Caractérisation et vérification de
l'appareillage de contrôle par ultrasons en multiéléments —
(standards.iteh.ai)*
Partie 2: Traducteurs

[SIST EN ISO 18563-2:2017](#)
<https://standards.iteh.ai/catalog/standards/sist/dc2793f9-aad6-460f-ab73-a06638d0f8c0/sist-en-iso-18563-2-2017>

Reference number
ISO 18563-2:2017(E)



iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 18563-2:2017](#)

<https://standards.iteh.ai/catalog/standards/sist/dc2793f9-aad6-460f-ab73-a06638d0f8c0/sist-en-iso-18563-2-2017>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
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

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	2
5 General compliance	2
6 Technical information for phased array probes	2
7 Test equipment	4
7.1 Electronic equipment	4
7.2 Test blocks and other equipment	4
7.2.1 General	4
7.2.2 Contact technique	4
7.2.3 Immersion technique	4
8 Performance tests for phased array probes	4
8.1 General	4
8.2 Physical aspects	5
8.2.1 Method	5
8.2.2 Acceptance criterion	5
8.3 Relative pulse-echo sensitivity variation	5
8.3.1 General	5
8.3.2 Method	5
8.3.3 Acceptance criteria	5
8.4 Frequency, bandwidth and pulse duration	6
8.4.1 General	6
8.4.2 Method	6
8.4.3 Acceptance criteria	6
8.5 Probe sensitivity	7
8.5.1 General	7
8.5.2 Method	7
8.5.3 Acceptance criteria	7
8.6 Inter-element cross-talk (optional)	7
8.6.1 General	7
8.6.2 Method	7
8.6.3 Acceptance criterion	8
8.7 Number of elements "out of specification"	8
8.7.1 General	8
8.7.2 Method	8
8.7.3 Acceptance criteria	8
Bibliography	9