

INTERNATIONAL
STANDARDS
ISO

This is a preview of "ISO 12713:1998". [Click here to purchase the full version from the ANSI store.](#)

First edition
1998-07-15

Non-destructive testing — Acoustic emission inspection — Primary calibration of transducers

*Essais non destructifs — Contrôle par émission acoustique — Étalonnage
primaire des transducteurs*



Reference number
ISO 12713:1998(E)

Contents

Page

1	Scope	1
2	Normative references	1
3	Definitions	1
4	Symbols and abbreviation	2
5	General requirements	2
6	Apparatus	4
7	Calibration data processing	8
8	Error analysis	11
9	Typical calibration results	12
Annex		
A	Bibliography	24

© ISO 1998

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

This is a preview of "ISO 12713:1998". [Click here to purchase the full version from the ANSI store.](#)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 12713 was prepared by Technical Committee ISO/TC 135, *Non-destructive testing*, Subcommittee SC 3, *Acoustical methods*.

Annex A of this International Standard is for information only.

This is a preview of "ISO 12713:1998". [Click here to purchase the full version from the ANSI store.](#)

Introduction

The acoustic emission method of non-destructive testing is one of the methods addressed by SC 3 on acoustical methods, of TC 135 on non-destructive testing. Standards for general procedures and requirements are required in order to ensure quantitative results and wide applicability. This International Standard addresses one method for the primary calibration of acoustic emission transducers. It is anticipated that as other methods of determining transducer sensitivity and phase response are documented, this International Standard will be appended. This International Standard was first introduced by the USA at the fifth meeting of ISO/TC 135/SC 3 in Berlin, April 1989.