
**Measurement and characterization of
particles by acoustic methods —**

Part 1:

**Concepts and procedures in ultrasonic
attenuation spectroscopy**

*Mesurage et caractérisation des particules par des méthodes
acoustiques —*

*Partie 1: Concepts et modes opératoires en spectroscopie d'atténuation
ultrasonique*

— www.iso.org/standards



Reference number
ISO 20998-1:2006 (E)

© ISO 2006

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2006

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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 0111
Fax + 41 22 749 0947
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Terms and definitions	1
3 Sampling and reference materials	3
3.1 Sampling considerations	3
3.2 Reference materials	4
4 Methods	4
4.1 Principles	4
4.2 Apparatus	5
4.3 Preparation	6
4.4 Measurement	8
4.5 Interpretation of measurement data	9
5 Reporting of results	10
5.1 Reports for laboratory testing	10
5.2 Results for in-process and control applications	10
Annex A (informative) Techniques	11
Annex B (informative) Application examples	17
Annex C (informative) Inversion of attenuation spectrum	18
Bibliography	20