INTERNATIONAL STANDARD

ISO 18437-2

> First edition 2005-04-15 **AMENDMENT 1** 2010-09-15

Mechanical vibration and shock — Characterization of the dynamic mechanical properties of visco-elastic materials —

Part 2:

Resonance method Teh STANDARD PREVIEW (standards.Tteh.ai)

Vibrations et chocs mécaniques — Caractérisation des propriétés https://standards.iteh.mecaniques des matériaux visco-élastiques —

205ec63a18a8/iso-18437-2-2005-ama-1-2010 Partie 2: Méthode de résonance

AMENDEMENT 1



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Foreword

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Amendment 1 to ISO 18437-2:2005 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*.

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AMENDMENT 1

Page iv, Foreword

Add after Part 3:

- Part 4: Dynamic stiffness method
- Part 5: Poisson's ratio based on comparison between measurements and finite element analysis

Delete at the end of the list:

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Part 4 (Impedance method) is under preparation.

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Add at the end of the list: https://standards.iteh.ai/catalog/standards/sist/e6491ed2-0d63-4012-8f46-

The following part is in preparation: 18a8/iso-18437-2-2005-amd-1-2010

— Part 1: Principles and guidelines

Page 3, Clause 3, paragraph 3, 2nd sentence

Add a new definition at the end of the clause.

3.8

relaxation time

time taken by an exponentially decaying quantity to decrease in magnitude by a factor 1/e = 0,367 9

Page 4, Figure 1

Replace the existing figure with the following.

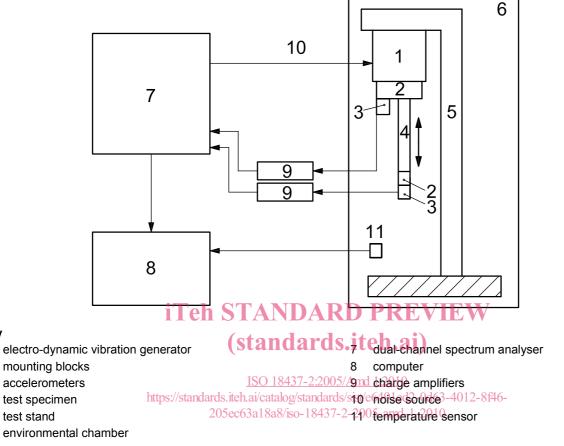


Figure 1 — Schematic diagram of the resonance apparatus

Page 5, 4.5

Key

2

3

4

5

6

In the third sentence, replace "60 °C" by "-60 °C".

Page 5, 5.1, paragraph 1

Replace the second sentence by the following.

The mould should be at least 150 mm long, with uniform square lateral dimensions of 6,0 mm $_{-0.1}^{0}$ mm.

Page 5, 5.1, paragraph 2

Replace the existing text by the following.

A uniform circular cross-section of 6 mm to 8 mm diameter is also acceptable instead of a square bar.

Page 7, 5.4.1, paragraph 2

Replace the first sentence by the following.

The data shall be displayed so as to observe that, at certain frequencies, the magnitude of the frequency response function, known as the acceleration ratio, A, exhibits resonance peaks in the kilohertz region, while the phase angle, ϕ , goes through several cycles of 360°.

Page 9, 6.1

Replace the last line of the definitions below Equation (3) with the following.

 ξ and β are the roots of Equations (2) and (3).

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