INTERNATIONAL STANDARD

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AMENDMENT 1
2010-09-15

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

Part 2: Resonance method

AMENDMENT 1

Vibrations et chocs mécaniques — Caractérisation des propriétés mécaniques dynamiques des matériaux visco-élastiques —

Partie 2: Méthode de résonance

AMENDEMENT 1

Reference number
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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*.

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

Part 2:
Resonance method

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:

Part 4 (*Impedance method*) is under preparation.

Add at the end of the list:

The following part is in preparation:

— Part 1: Principles and guidelines

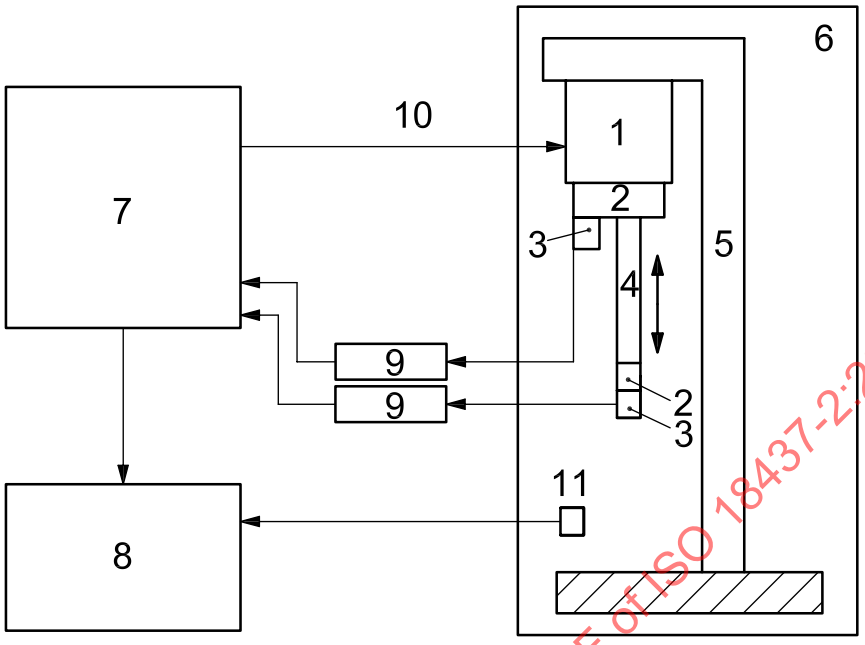
Page 3, Clause 3, paragraph 3, 2nd sentence

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.



Key

1	electro-dynamic vibration generator	7	dual-channel spectrum analyser
2	mounting blocks	8	computer
3	accelerometers	9	charge amplifiers
4	test specimen	10	noise source
5	test stand	11	temperature sensor
6	environmental chamber		

Figure 1 — Schematic diagram of the resonance apparatus

Page 5, 4.5

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 $^{0}_{-0,1}$ 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.