ISO 21901:2021-02 (E)

Thermal insulation - Test method for thermal diffusivity - Periodic heat method

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Symbols **2**

5 Principle **3**
5.1 General 3
5.2 Calculation of thermal diffusivity 3

6 Test specimen **6**
6.1 Sample 6
6.2 Details of test specimen 6
6.3 Machining of test specimen 6
6.3.1 When using two test specimens 6
6.3.2 When using a single test specimen 7

7 Apparatus **8**
7.1 General 8
7.2 Temperature measurement instrument 9

8 Procedure **9**
8.1 Rounding numbers 9
8.2 Period of temperature change 9
8.3 Amplitude of temperature change 10
8.4 Measurement method 10
8.5 Calculation of thermal diffusivity 11
8.6 Calculation of thermal conductivity 11

9 Test report **11**

Annex A (normative) **Size of test specimen and period of temperature change** **12**

Annex B (informative) **Measurement considerations** **15**

Bibliography **16**