ISO 16835:2014-04 (E)

Refractory products - Determination of thermal expansion

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Contact method with cylindrical test piece 3
4.1 Principle 3
4.2 Apparatus 3
4.3 Test piece 8
4.4 Procedure 10
4.5 Calculation and drawing 10

5 Contact method with rod test piece 14
5.1 Principle 14
5.2 Apparatus, implement and reference sample 14
5.3 Test piece 17
5.4 Procedure 18
5.5 Calculation and drawing 19

6 Non-contact method 22
6.1 Principle 22
6.2 Procedure 23
6.3 Calculation and drawing a figure 23

7 Test report 25

Annex A (informative) Characteristics of the test methods 27

Annex B (informative)Recommendedvaluesoflinearthermalexpansionrateandcoefficientof linear thermal expansion of reference sample 28

Annex C (informative) Example of apparatus and test piece for non contact method 30

Bibliography 37