

ISO 16835:2014-04 (E)

Refractory products - Determination of thermal expansion

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	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) Recommended values of linear thermal expansion rate and coefficient of linear thermal expansion of reference sample		28
Annex C (informative) Example of apparatus and test piece for non contact method		30
Bibliography		37