ISO 21736:2020 (E)

Refractories — Test methods for thermal shock resistance

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Method 1: water quenching

- 4.1 General
- 4.2 Principle
- 4.3 Equipment
- 4.3.1 Experimental furnace
- 4.3.2 Cooling water channel
- 4.3.3 Test piece clamp
- 4.3.4 Drying oven
- 4.3.5 Grid, mesh size of 5 mm × 5 mm
- 4.4 Test pieces
- 4.4.1 Sampling
- 4.4.2 Shape, dimensions and preparation of test pieces
- 4.5 Test procedure
- 4.5.1 Heating
- 4.5.2 Cooling
- 4.6 Results expression

5 Method 2: compressed air quenching

- 5.1 General
- 5.2 Principle
- 5.3 Equipment
- 5.4 Test pieces
- 5.4.1 Sampling
- 5.4.2 Shape, dimensions and preparation of test pieces
- 5.5 Test procedure
- 5.5.1 Heating
- 5.5.2 Cooling
- 5.5.3 Determination
- 5.6 Results expression

6 Method 3: air quenching

- 6.1 General
- 6.2 Principle
- 6.3 Equipment
- 6.4 Test pieces
- 6.4.1 Sampling
- 6.4.2 Shape, dimensions and preparation of test pieces
- 6.5 Test procedures
- 6.5.1 Heating
- 6.5.2 Cooling
- 6.5.3 Results expression

7 Test report

Annex A (informative) Precision data of thermal shock resistance tests

Page count: 11