
British Standard Methods of testing

Refractory materials

Part 3. General and textural properties

Section 3.0 Introduction

Méthodes d'essai des matériaux réfractaires
Partie 3. Propriétés générales et de texture
Section 3.0 Introduction

Verfahren zur Prüfung von feuerfesten Werkstoffen
Teil 3. Allgemeine und gefügenspezifische Eigenschaften
Abschnitt 3.0 Einführung

This Section of BS 1902 : Part 3 has been prepared under the direction of the Refractory Products Standards Committee. It supersedes BS 1902 : Section 3.0 : 1981, which is withdrawn.

This Section serves as an introduction to the whole of Part 3 of BS 1902, the general arrangement of which is shown in table 1, together with a list of the Sections of Part 3. The Sections are published separately.

The methods of test described in the Sections of Part 3 are either updated versions of the methods originally described in Parts 1A : 1966 and 1B : 1967 or are based on corresponding work by the International Organization for Standardization (ISO). The details are indicated in each Section.

Each method in Part 3 is suitable for use as a laboratory method, or as a referee method, unless otherwise stated in the scope of the Section concerned. Any appendices to the Sections of Part 3 describe alternative methods, or alternatives to some portions of the methods, which may be used in the circumstances described in the introduction to the appendix concerned.

Unless otherwise specified in the scope of the Section concerned, each method is applicable to both dense shaped and shaped insulating products.

Sections 3.1, 3.2 and 3.13 are of general application, not only to the remaining Sections of Part 3 but also, where appropriate, to Sections of other Parts.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Confirmed February 2011

Table 1. List of Parts of BS 1902 (showing the Sections of Part 3, which are published separately)			
Part/Section number	Title	Year of issue	Remarks
Part 1A	Sampling and physical tests	1966	Mainly superseded by the Sections of Parts 3, 4 and 5. Declared obsolescent
Part 2	Chemical analysis (wet methods)	1970—1987	Issued as three Sections
Part 3	General and textural properties		
Section 3.0	Introduction	1988	Second edition
Section 3.1	Guidance on sampling	1981	Confirmed 1987
Section 3.2	Measurement of dimensions of specimens for testing (methods 1902-302)	1981	Confirmed 1986
Section 3.3	Sieve analysis (methods 1902-303)	1981	To be confirmed in 1988. Amendment 1988
Section 3.4	Determination of true density (method 1902-304)	1981	Confirmed 1987
Section 3.5	Determination of powder density (method 1902-305)	1981	Confirmed 1986
Section 3.6	Determination of grain density (methods 1902-306)	1984	Amendment 1988
Section 3.7	Determination of bulk density and true porosity of shaped insulating products (method 1902-307)	1981	Confirmed 1987
Section 3.8	Determination of bulk density, true porosity and apparent porosity of dense shaped products (methods 1902-308)	1981	
Section 3.9	Determination of permeability to gases (method 1902-309)	1981	
Section 3.10	Determination of resistance to carbon monoxide (method 1902-310)	1981	
Section 3.11	Measurement of dimensions and shape of refractory bricks and blocks (methods 1902-311)	1983	
Section 3.12	Determination of resistance to acids (method 1902-312)	1983	
Section 3.13	Measurement of corner and edge defects and other surface imperfections of refractory bricks and blocks (attributive properties) (method 1902-313)	1985	
Section 3.14	Determination of hydration tendency (methods 1902-314)	1987	
Section 3.15	Determination of resistance to acids, for bulk material	—	
Section 3.16	Determination of pore size distribution	—	