AS 4045.2—2006
Reconfirmed 2017

AS 4045.2—2006

Australian Standard™

Prepared unshaped refractory materials

Part 2: Insulating

This Australian Standard was prepared by Committee MN-007, Refractories and Refractory Materials. It was approved on behalf of the Council of Standards Australia on 6 March 2006.
This Standard was published on 27 March 2006.

The following are represented on Committee MN-007:

Australasian Ceramic Society
Australasian Institute of Mining and Metallurgy
Australian Aluminium Council
Bureau of Steel Manufacturers of Australia
CSIRO Manufacturing and Infrastructure Technology
Cement Industry Federation
Institute of Refractories Engineers
Refractories Manufacturers Association of Australia
The University of New South Wales

This Standard was issued in draft form for comment as DR 05551.

STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 4045.2—2006
Prepared unshaped refractory materials
Part 2: Insulating

RECONFIRMATION NOTICE

Technical Committee MN-007 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

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The following are represented on Technical Committee MN-007:

Australian Ceramic Society
Bureau of Steel Manufacturers of Australia
Cement Industry Federation
CSIRO
Institute of Refractories Engineers
Refractories Manufacturers Association of Australia
The University of New South Wales

NOTES

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Part 2: Insulating

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PREFACE

This Standard was prepared by the Standards Australia Committee MN-007, Refractories and Refractory Materials, to supersede AS 4045.2—1995, *Prepared unshaped refractory materials*, Part 2: *Insulating*.

Part 1 of this Standard is a classification of dense materials.

The objective of this Standard is to provide manufacturers and users of refractories with a classification of insulating unshaped materials.

This revision has been editorially updated into current Standards Australia format.

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1 SCOPE

This Standard provides a classification and designation of prepared unshaped insulating refractory materials produced from chamotte, diatomaceous earth, exfoliated vermiculite, expanded fireclay grog, bubble alumina, perlite or other suitable materials.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
1152 Specification for test sieves

1774 Refractories and refractory materials—Physical test methods
1774.5 Method 5: The determination of density, porosity and water absorption
1774.13 Method 13: Permanent dimensional change

2780 Refractories and refractory materials—Glossary of terms

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 2780 and those below apply.

3.1 Granular size

The mesh width of the finest sieve (complying with AS 1152) through which at least 95% by mass of the material passes.

3.2 Hydraulic bond

A bond that causes setting and hydraulic hardening at ambient temperature.

3.3 Insulating refractory castables

Mixtures of insulating refractory aggregate and bonding agents.

3.4 Insulating refractory gunning materials

Mixtures of insulating refractory aggregate and bonding agents, specially formulated for placing by pneumatic or mechanical projection.

3.5 Organic bond

A bond achieved by the addition of an organic material having binding or hardening characteristics.

NOTE: When several bonds are used conjointly, the bond is designated according to the nature of the bond that plays the principal part during the hardening.