

Australian Standard™

**Refractories and refractory materials—  
Glossary of terms**

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 20 June 2003 and published on 11 August 2003.

---

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  
Institute of Refractories Engineers  
Refractories Manufacturers Association of Australia

---

### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Australia web site at [www.standards.com.au](http://www.standards.com.au) and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.com.au](mailto:mail@standards.com.au), or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

---

*This Standard was issued in draft form for comment as DR 02562.*

Australian Standard™

# Refractories and refractory materials— Glossary of terms

Originated as AS R27—1965 (being endorsement of BS 3446—1962 with amendments).  
Previous edition AS 2780—1999.  
Third edition 2003.

## **COPYRIGHT**

© Standards Australia International

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia International Ltd  
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 5440 6

## PREFACE

This Standard was prepared by the Standards Australia Committee MN-007, Refractories and Refractory Materials at the request of the refractories industry as a revision of AS 2780—1999.

The definitions given in this Standard are of a general nature and should not be interpreted as fully technical definitions. Where a more complete technical definition is sought, reference may need to be made to other Australian Standards such as the AS 1774 series of Standards relating to relevant specifications or sampling procedures. However, the definitions in this Standard are not in conflict with the technical definitions contained within, and specific to, those other Standards.

The source documents for this Standard include ISO 836:2001, *Terminology for refractories*, BS 3446:1990, *Glossary of terms associated with refractory materials*, Parts 1 to 3 and many industrial reference documents supplied by the industries, councils and associations of the ferrous, non-ferrous and refractories manufacturers and users within Australia.

This Standard differs from the 1999 edition in the inclusion of a number of international definitions, modification of some existing definitions and the referenced documents have been updated.

A list of referenced documents is presented in Appendix A.

Non-preferred terms are given in light type-face.

The particular discipline in which the term is used is presented in the column headed 'Used in'. The following legend applies to this column:

|     |   |
|-----|---|
| BRS | = Boilers   |
| BSS | = Brick shapes  |
| COV | = Coke ovens  |
| FDN | = Furnace design  |
| FMB | = Ferrous metallurgy, blast furnace                         |
| FMC | = Ferrous metallurgy, converters                            |
| FME | = Ferrous metallurgy, electric steel furnace                |
| FMF | = Ferrous metallurgy, foundry and smelting of ores          |
| FMH | = Ferrous metallurgy, heat-treatment and reheating furnaces |
| FML | = Ferrous metallurgy, hot-blast stoves                      |
| FMM | = Ferrous metallurgy, mixers and hot metal ladles           |
| FMO | = Ferrous metallurgy, open-hearth furnace                   |
| FMS | = Ferrous metallurgy, steel casting                         |
| GIN | = Glass industry  |
| GTR | = General term  |
| MFD | = Manufacture, drying and firing                            |
| MFK | = Manufacture, kilns and kiln furniture                     |
| MFP | = Manufacture, preparation and shaping                      |
| NFA | = Non-ferrous metallurgy, aluminium industry                |