

Australian Standard™

**Explosives—Storage and use**

**Part 2: Use of explosives**



This Australian Standard was prepared by Committee CE-005, Explosives. It was approved on behalf of the Council of Standards Australia on 3 August 2005. This Standard was published on 2 February 2006.

---

The following are represented on Committee CE-005:

ADI  
AUSTROADS  
Australasian Institute of Explosives Engineers  
Australasian Institute of Mining and Metallurgy  
Australian Chamber of Commerce and Industry  
Department of Administrative and Information Services (S.A.)  
Department of Defence (Australia)  
Department of Infrastructure, Energy and Resources (Tas)  
Department of Primary Industries, NSW  
Department of Primary Industries (Victoria)  
Department of Natural Resources and Mines (Qld)  
Extractive Industries Association of Victoria  
Institute of Quarrying Australia  
Pyrotechnic Interests  
Royal Australian Chemical Institute  
Victorian WorkCover Authority  
WorkCover New South Wales

Additional Interests:

Explosives suppliers  
Explosives accessories suppliers

---

### **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 Standards may also be withdrawn.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 Web Shop 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.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

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.org.au](mailto:mail@standards.org.au), or write to the Chief Executive, Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

*This Standard was issued in draft form for comment as DR 04062.*

AS 2187.2—2006

Australian Standard™

## **Explosives—Storage and use**

### **Part 2: Use of explosives**

First published in part as part of AS CA23-1948 Supplement.  
AS CA23 first published in 1949.  
Second edition 1952.  
Redated 1955.  
AS CA 23-1948 Supplement and AS CA23-1955 revised,  
amalgamated and designated AS CA23-1967.  
AS CA23-1967 revised in part and redesignated AS 2187.2—1979.  
Fourth edition 2006.

#### **COPYRIGHT**

© Standards Australia

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 GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 7225 0

## PREFACE

This Standard was prepared by the Standards Australia Committee CE-005, Explosives, to supersede AS 2187.2—1993, *Explosives—Storage, transport and use, Part 2: Use of explosives*.

The objective of this Standard is to provide requirements, information, and guidance for the use of explosives, the management of a site where explosives are used and the destruction of excess or deteriorated explosives, which ensure risks are acceptable minimized. This Standard is for reference by manufacturers, suppliers, and users of explosives. In addition, it is for reference by regulators and beneficiaries of activities involving explosives.

The major changes in this revision include the following:

- (a) Inclusion of requirements for large operations.
- (b) Adoption of a risk management approach with a greater emphasis on planning.
- (c) Use of the term ‘close proximity’ in lieu of specific distances.
- (d) Where appropriate, removal of reference to approval by authorities.
- (e) Inclusion of requirements for electronic and remote blasting.
- (f) Significant changes to ground vibration and airblast overpressure assessment.
- (g) Inclusion of a new appendix covering exclusion zones.
- (h) Inclusion of requirements for the use of explosives in atmospheres greater than atmospheric pressure.

This Standard is one of a series which includes the following:

AS

- 2187.0 Explosives—Storage, transport and use—Terminology
- 2187.1 Explosives—Storage, transport and use—Storage
- 2187.2 Explosives—Storage, transport and use—Use of explosives (this part)
- 2187.3 Explosives—Storage, transport and use—Pyrotechnics—Shopgoods fireworks—  
Design, performance and testing
- 2187.4 Explosives—Storage, transport and use—Pyrotechnics—Outdoor displays

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

## CONTENTS

	<i>Page</i>
FOREWORD.....	6
 SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE .....	7
1.2 APPLICATION .....	7
1.3 REFERENCED DOCUMENTS .....	7
1.4 DEFINITIONS .....	8
1.5 REGULATORY AUTHORITIES.....	11
 SECTION 2 GENERAL REQUIREMENTS	
2.1 RISK.....	12
2.2 PLANNING.....	12
2.3 EXECUTION .....	12
2.4 SOURCES OF IGNITION NEAR EXPLOSIVES.....	12
2.5 BLAST EQUIPMENT .....	12
2.6 REPORTING OF THEFT OR LOSS OF EXPLOSIVES.....	13
2.7 REPORTING OF DAMAGE OR INJURY .....	13
2.8 EMERGENCY PROCEDURES .....	13
 SECTION 3 ON-SITE MANUFACTURE OF EXPLOSIVES	
3.1 GENERAL .....	14
3.2 MATERIALS .....	14
3.3 FIRE PRECAUTIONS ON MIXING SITES .....	14
3.4 MIXING APPLIANCES AND BUILDINGS .....	15
3.5 MANUFACTURE OF ANFO.....	18
3.6 STORAGE OF ON-SITE MANUFACTURED EXPLOSIVES .....	19
 SECTION 4 PLANNING	
4.1 GENERAL PROVISIONS.....	20
4.2 BLAST MANAGEMENT PLAN .....	20
4.3 ADMINISTRATION AND LEGISLATION .....	20
4.4 SAFETY AND SECURITY.....	20
4.5 BLASTING HISTORY AND CONSULTATION .....	21
4.6 PHYSICAL CHARACTERISTICS AND GEOLOGY .....	21
4.7 RESPONSIBILITIES .....	21
4.8 ENVIRONMENTAL IMPACTS .....	22
4.9 GENERAL SAFETY PRECAUTIONS .....	22
4.10 SPECIAL PRECAUTIONS .....	23
4.11 BLAST DESIGN .....	23
 SECTION 5 BLAST PREPARATION	
5.1 BLAST MANAGEMENT PLAN .....	25
5.2 BLAST AREA PREPARATION AND ACCESS .....	25
 SECTION 6 OPERATIONS PRIOR TO CHARGING	
6.1 BLAST AREA MANAGEMENT .....	27
6.2 PNEUMATIC CHARGING .....	29
6.3 PREPARATION OF CHARGES .....	29
6.4 BOOSTERS/PACKAGED PRODUCTS .....	31

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-