Australian Standard™

Explosives—Storage, transport and use

Part 1: Storage

This Australian Standard was prepared by Committee CE/5, Explosives. It was approved on behalf of the Council of Standards Australia on 30 December 1997 and published on 5 July 1998.

The following interests are represented on Committee CE/5:

Australasian Institute of Explosives Engineers

Australasian Institute of Mining and Metallurgy

Australian Chamber of Commerce and Industry

AUSTROADS

Chamber of Minerals and Energy of Western Australia

Crushed Stone Association of Australia

Department of Industrial Affairs, S.A.

Department of Defence (Australia)

Department of Mineral Resources, N.S.W.

Department of Minerals and Energy, W.A.

Department of Mines and Energy, Qld

Department of Natural Resources and Environment, Vic.

Minerals Council of Australia

Pyrotechnic Interests

Royal Australian Chemical Institute

The Institute of Quarrying Australia

Victorian WorkCover Authority

WorkCover, New South Wales

Workplace Standards Authority, Tas.

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard™

Explosives—Storage, transport and use

Part 1: Storage

Originated in part as AS (E)A501—1940. Previous editions AS 2187.1—1984 and AS 2188—1988. Revised, amalgamated and designated AS 2187.1—1998.

Incorporating: Amdt 1—2000

2

PREFACE

This Standard was prepared by the Standards Australia Committee CE/5 Explosives, to supersede AS 2187.1—1984, Explosives—Storage, transport and use, Part 1: Storage and land transport and AS 2188—1988, Explosives—Relocatable magazines for storage.

This Stand is one of a series dealing with explosives and pyrotechnics. To date the series consists of the following:

AS

- 2187 Explosives—Storage, transport and use
- 2187.0 Part 0: Terminology
- 2187.1 Part 1: Storage (this Standard)
- 2187.2 Part 2: Use of explosives
- 2187.4 Part 4: Pyrotechnics—Outdoor displays

It is proposed to publish a further three parts consisting of:

Use of explosives

Pyrotechnics—Indoor theatrical and film sets

Pyrotechnics—Marine distress signals

Pyrotechnics—Shop good fireworks

The objective of this Standard is to provide owners of magazines and regulatory authorities with acceptable requirements to ensure the security and safety of explosives and detonators.

The principal changes from the superseded AS 2187.1 and AS 2188 are as follows:

- (a) Inclusions are—
 - (i) improved security for vents and locks;
 - (ii) revised minimum separation distances based on international testing and experience;
 - (iii) qualifications and duties for a person in charge of a magazine;
 - (iv) housekeeping, maintenance and emergency procedures;
 - (v) underground storage; and
 - (vi) storage of pyrotechnic substances and devices and propellant powders.
- (b) Exclusions are—
 - (i) explosives and explosive ordnances for defence purposes which comply with the Defence Explosives Safety Manual.
 - (ii) conveyance of explosives on public roads (National Standard adopted by all States and Territories); and
 - (iii) storage for ammonium nitrate other than minimum clearance distances to magazines for the storage of explosives.

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

		Page
SECTI	ON 1 SCOPE AND GENERAL	
1.1		5
1.2		
1.3		_
1.4		
1.4		_
1.0		_
1.6	NEW DESIGNS AND INNOVATIONS	5
SECTI	ON 2 DESIGN REQUIREMENTS	
2.1	GENERAL REQUIREMENTS FOR ABOVE-GROUND	
	MAGAZINE SITES	6
2.2	PORTABLE MAGAZINES	8
2.3		
2.4		
2.5		
2.6		
2.0	UNDERGROUND STORAGE	19
SECTI	ON 3 SEGREGATION AND SEPARATION DISTANCES	
3.1	SEGREGATION	21
3.2	SEPARATION DISTANCES—CLASS 1 EXPLOSIVES	22
3.3	SEPARATION DISTANCES—OTHER THAN CLASS 1	
	EXPLOSIVES	27
3.4		
3.5	SAFETY AND POWER DEVICE CARTRIDGES	29
	ON 4 MANAGEMENT OF MAGAZINES	
4.1		
4.2		
4.3	HOUSEKEEPING	30
4.4		
4.5	MATERIALS HANDLING EQUIPMENT	32
4.6	MANAGEMENT	33
4.7	RECORDS	35
CECEI	ON 5 EMERGENCY PROCEDURES	
	ON 5 EMERGENCY PROCEDURES	26
5.1		
5.2		
5.3	FIRE	36
APPE	NDICES	
Α	LIST OF REFERENCED DOCUMENTS	38
В	MOUNDING OF MAGAZINES	
C	FENCING OF MAGAZINES	
D	RELOCATABLE MAGAZINES—CONSTRUCTION DETAILS	
E	CONVERTED FREIGHT CONTAINERS	77
ட	FOR USE AS MAGAZINES—CONSTRUCTION DETAILS	50
	TOR USE AS MAGAZINES—CONSTRUCTION DETAILS	32



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

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