

Australian/New Zealand Standard™

**Caplights for use in mines susceptible
to firedamp**

**Part 2: Performance and other safety-
related matters**



Standards Australia



STANDARDS
NEW ZEALAND
Pūrongo Aotearoa

AS/NZS 62013.2:2001

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Australian Chamber of Commerce and Industry
Australian Coal Association
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Department of Mineral Resources N.S.W.
Department of Natural Resources and Mines (QLD)
Electrical Apparatus Service Association
Mining Electrical and Mining Mechanical Engineering Society
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-023, Electrical Equipment in Coal Mines.

The objective of this Standard is to provide users, manufacturers and regulatory authorities with an internationally aligned specification for the performance and other safety related matters of caplights for use in mines susceptible to firedamp.

This Standard is identical with and has been reproduced from IEC 62013-2:2000, *Caplights for use in mines susceptible to firedamp, Part 2: Performance and other safety-related matters*.

A reference to an International Standard identified in the Normative References Clause by strikethrough (~~example~~) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (**example**). Where the struck-through referenced document and the referenced Australian or Australian/New Zealand Standard are identical, this is indicated in parenthesis after the title of the latter. In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'this standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

The term 'normative' has been used in this Standard to define the application of the annex to which it applies. A 'normative' annex is an integral part of a Standard.

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Australian/New Zealand Standard
Caplights for use in mines susceptible to firedamp**Part 2: Performance and other safety-related matters****1 Scope**

This part of IEC 62013 details those performance and other safety features not covered in IEC 62013-1, but which are nevertheless important for the safety and working conditions of the user. It may also be applied to caplights for use in mines not likely to be endangered by firedamp. When this part of the standard is used as a "stand-alone" document for non-gassy mines, any relevant constructional requirements should be the subject of agreement between the supplier and the user and, where possible, be as described in IEC 62013-1.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 62013. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However parties to agreements based on this part of IEC 62013 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

References to International Standards that are struck through in this Clause are replaced by references to equivalent Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is appropriately identified.

IEC 60050(845):1987, *International Electrotechnical Vocabulary (IEV) – Chapter 845: Lighting*

~~IEC 62013-1:1999, *Caplights for use in mines susceptible to firedamp – Part 1: General requirements – Construction and testing in relation to the risk of explosion*~~

AS/NZS 62013.1 *Caplights for use in mines susceptible to firedamp, Part 1: General requirements—Construction and testing in relation to the risk of explosion* (identical to IEC 62013-1)

IEC 60983, *Miniature lamps*

~~ISO 1000, *SI units and recommendations for the use of their multiples and of certain other units*~~

AS ISO 1000, *The international system of units (SI) and its application* (identical to ISO 1000)

3 Definitions

For the purposes of this part of IEC 62013, the definitions of ISO 1000 and IEC 60050(845) and the following apply: