AS 3637.1—2005
(Incorporating Amendment No. 1)
Reconfirmed 2017

Australian Standard®

Underground mining—Winding suspension equipment

Part 1: General requirements

This Australian Standard® was prepared by Committee ME-018, Mining Equipment. It was approved on behalf of the Council of Standards Australia on 11 May 2005.
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The following are represented on Committee ME-018:

- Australian Chamber of Commerce and Industry
- Australian Coal Association
- Australian Industry Group
- Department of Industry and Resources W.A.
- Department of Labour New Zealand
- Department of Mineral Resources N.S.W.
- Department of Natural Resources and Mines (Qld)
- Engineers Australia
- South Australian Chamber of Mines and Energy

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 3637.1—2005
Underground mining—Winding suspension equipment
Part 1: General requirements

RECONFIRMATION NOTICE

Technical Committee ME-018 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.

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 26 February 2017.

The following are represented on Technical Committee ME-018:

Australasian Institute of Mining and Metallurgy
Australian Chamber of Commerce and Industry
Australian Industry Group
Construction and Mining Equipment Industry Group
Department of Industry, Skills and Regional Development (NSW)
Department of Mines and Petroleum (WA)
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NOTES

Australian Standard®

Underground mining—Winding suspension equipment

Part 1: General requirements

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PREFACE

This Standard was prepared by the Standards Australia Committee, Mining Equipment, to supersede AS 3637.1—1989.

This Standard incorporates Amendment No. 1 (May 2011). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to facilitate the implementation and maintenance of functional and safe winding suspension equipment in underground mines and to facilitate clear communication in the trade and governance thereof.

This Standard is one of a series of Standards on underground mine winding suspension equipment as follows:

AS 3637 Underground mining—Winding suspension equipment
AS 3637.1 Part 1: General requirements (this Standard)
AS 3637.2 Part 2: Detaching ropes
AS 3637.3 Part 3: Rope cappings
AS 3637.4 Part 4: Drawbars and connecting links
AS 3637.5 Part 5: Rope swivels and swivel hooks
AS 3637.6 Part 6: Shackles and chains

This Standard is intended to be read in conjunction with Standards covering specific equipment, that is, other Parts in this series.

Reference was made to British Coal documents, Procedure for Examining Cage Suspension Gear at Testing Centres and Design Guide for Cage Suspension Gear in the preparation of Appendices A and D.

This Standard has no legal authority in its own right but may acquire legal standing in one or more of the following ways:

(a) Adoption by a statutory authority.

(b) Reference to compliance with the Standard as a contract requirement.

(c) Claim by a manufacturer or manufacturer's agent of compliance with the Standard.

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.

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1 SCOPE

This Standard specifies general requirements for suspension equipment used in vertical mine shafts.

Inspection and maintenance are covered in Appendix A.

2 REFERENCED DOCUMENTS

The documents below are referred to in this Standard.

AS
1065 Non-destructive testing—Ultrasonic testing of carbon and low alloy steel forgings

1171 Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures

1204 Structural steels—Ordinary weldable grades

1275 Metric screw threads for fasteners

1391 Metallic materials—Tensile testing at ambient temperature

1442 Carbon steels and carbon-manganese steels—Hot-rolled bars and semi-finished products

1544 Methods for impact tests on metals
1544.2 Part 2: Charpy V-notch

1654 ISO system of limits and fits
1654.1 Part 1: Bases of tolerances, deviations and fits

1710 Non-destructive testing of carbon and low alloy steel plate—Test methods and quality classification

1733 Methods for the determination of grain size in metals

2074 Cast steels

2536 Surface texture

3637 Underground mining – Winding suspension equipment (All parts as applicable)

B199 Undercuts and runouts for screw threads

AS/NZS
1050 Methods for the analysis of iron and steel
1050.1 Part 1: Sampling iron and steel for chemical analysis

3678 Structural steel—Hot–rolled plates, floor-plates and slabs

3679 Structural steel
3679.1 Part 1: Hot-rolled bars and sections

