

Australian Standard<sup>®</sup>

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**Electrical equipment for coal  
mines—Maintenance and overhaul**

**Part 1: Maintenance of electrical  
equipment for hazardous areas**

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This Australian Standard was prepared by Committee EL/23, Electrical Equipment in Coal Mines. It was approved on behalf of the Council of Standards Australia on 16 January 1990 and published on 7 May 1990.

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The following interests are represented on Committee EL/23:

Australian Chamber of Commerce  
Australian Coal Association  
Australian Electrical and Electronic Manufacturers Association  
Confederation of Australian Industry  
Department of Industrial Relations and Employment, N.S.W.  
Department of Minerals and Energy, N.S.W.  
Department of Mines, Qld  
Institution of Mining Electrical and Mining Mechanical Engineers  
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## PREFACE

This Standard was prepared by the Standards Australia Committee on Electrical Equipment in Coal Mines to supersede AS 2290.1—1985, *Electrical equipment for coal mines—Maintenance and overhaul*, Part 1: *Maintenance of electrical equipment for explosive atmospheres*. It is for the guidance of users and relevant Regulatory Authorities concerned with the maintenance of electrical equipment in coal mines and is part of a series of Standards on the maintenance and overhaul of electrical equipment used in association with underground mining machines.

The major technical change to the 1985 edition is the addition of a Code C1 examination, which is intended to give guidance on the intervals between overhaul operations.

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## FOREWORD

Various Australian Standards and statutory requirements lay down criteria for the manufacture and regulations for the installation and use of electrical equipment.

This Standard recognizes the need to maintain equipment properly while it is in service, and lays down guidelines in the form of checklists and test procedures for those persons engaged in this aspect of maintenance.

The Standard recommends that delegation of responsibility in the areas of maintenance and repair should be established to ensure that a high level of maintenance can be achieved and maintained on both existing and future installations. This work may be carried out in situ or in an overhaul workshop.

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## STANDARDS AUSTRALIA

## Australian Standard

**Electrical equipment for coal mines—Maintenance and overhaul**

## Part 1: Maintenance of electrical equipment for hazardous areas

## SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This Standard sets out requirements for the examination and repair of electrical equipment for hazardous areas in use in and around underground coal mines. It details methods of examination, maintenance and testing required to ensure safety, compliance with relevant Standards and trouble-free operation while the equipment is in service.

NOTE: Attention is also drawn to the various Mines Acts, the Regulations under these Acts and also any other appropriate statutory requirements or by-laws. These place the prime responsibility for complying with specific safety requirements on the manufacturer or user of the equipment.

**1.2 REFERENCED DOCUMENTS.** The following documents are referred to in this Standard:

AS

2290 Electrical equipment for coal mines—Maintenance and overhaul

2290.2 Part 2: Overhaul of electrical equipment for hazardous areas

2380 Electrical equipment for explosive atmospheres—Explosion-protection techniques

2380.1 Part 1: General requirements

2480 Electrical equipment for explosive atmospheres—Flameproof enclosure—Type of protection d

3573 Electrical equipment for coal mines—Glossary of terms

**1.3 DEFINITIONS.** For the purpose of this Standard, the definitions given in AS 3573 apply.