

Australian/New Zealand Standard™

**Electrical equipment for mines and  
quarries**

**Part 4: Mains powered electrical mobile  
machines**



## **AS/NZS 4871.4:2010**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-023, Electrical Equipment in Mines and Quarries. It was approved on behalf of the Council of Standards Australia on 13 April 2010 and on behalf of the Council of Standards New Zealand on 23 April 2010.  
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The following are represented on Committee EL-023:

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Australian Coal Association  
Australian Industry Group  
Aviation and Marine Engineers Association, New Zealand  
Department of Mines and Energy, Qld  
Department of Primary Industries, Mineral Resources, NSW  
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# Australian/New Zealand Standard™

## Electrical equipment for mines and quarries

### Part 4: Mains powered electrical mobile machines

Originated as part of AS 2595.1—1983.  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-023, Electrical Equipment in Mines and Quarries, to supersede AS/NZS 4871.4:2002, *Main powered electrical mobile machines*.

The objective is to set out requirements for the design, construction and testing of electrical powered mobile machines for use in mines and quarries.

This Standard is Part 4 of the series AS/NZS 4871, *Electrical equipment for mines and quarries*.

The AS/NZS 4871 series comprises the following parts:

Part 1: General requirements

Part 2: Distribution, control and auxiliary equipment

Part 3: Substations

Part 4: Main powered electrical mobile machines (this Part)

Part 5: Battery powered electrical mobile machines

Part 6: Diesel powered machinery and ancillary equipment

## CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE .....	4
1.2 APPLICATION .....	4
1.3 REFERENCED DOCUMENTS .....	4
1.4 DEFINITIONS .....	4
1.5 EXISTING EQUIPMENT .....	4
SECTION 2 COMMON REQUIREMENTS	
2.1 GENERAL .....	5
2.2 ELECTRICAL ISOLATION .....	5
2.3 ISOLATION FOR MECHANICAL MAINTENANCE .....	5
2.4 LIGHTING SYSTEMS.....	5
2.5 AUTOMATIC GAS MONITORING SYSTEM .....	5
2.6 MACHINE CONTROLS .....	6
2.7 MACHINE SAFETY INTERLOCKS.....	7
2.8 MACHINE MOTORS .....	7
2.9 MACHINE CABLING .....	8
2.10 CABLE REELS .....	8
2.11 MACHINE INTERLOCK CONTROLS .....	9

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**Australian/New Zealand Standard**  
**Electrical equipment for mines and quarries**

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## Part 4: Mains powered electrical mobile machines

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for the design, construction and testing of electrical powered mobile machines used in association with mining and quarrying activities.

**1.2 APPLICATION**

All mains powered mobile machines shall comply with the requirements of AS/NZS 4871.1 and the requirements of this Standard.

**1.3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS/NZS

4240 Remote control systems for mining equipment (series)

4871 Electrical equipment for coal mines, for use underground

4871.1 Part 1: General requirements

**1.4 DEFINITIONS**

For the purpose of this Standard the definitions in AS/NZS 4871.1 apply.

**1.5 EXISTING EQUIPMENT**

In recognition of changes made to this edition of this Standard, existing equipment should be assessed for risk and interim control measures should be implemented where necessary.

Compliance improvements should be made within a time frame that takes into consideration the associated risk levels.