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Superseded by AS 2480.2-1991

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Australian Standard®
2480—1986

ELECTRICAL EQUIPMENT FOR EXPLOSIVE ATMOSPHERES—FLAMEPROOF ENCLOSURE—TYPE OF PROTECTION d

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This Australian standard was prepared by Committee EL/14, Electrical Equipment in Hazardous Locations. It was approved on behalf of the Council of the Standards Association of Australia on 6 February 1986 and published on 5 May 1986.

The following interests are represented on Committee EL/14:

Australian Coal Association

Australian Electrical and Electronic Manufacturers Association

Australian Institute of Petroleum

Confederation of Australian Industry

Department of Industrial Relations, N.S.W.

Department of Industry and Commerce

Department of Mineral Resources, N.S.W.

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AUSTRALIAN STANDARD

ELECTRICAL EQUIPMENT FOR EXPLOSIVE ATMOSPHERES— FLAMEPROOF ENCLOSURE— TYPE OF PROTECTION d

AS 2480—1986

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PREFACE

This edition of this standard was prepared by the Association's Committee on Electrical Equipment in Hazardous Locations for the guidance of manufacturers, users, statutory authorities and associated interests and for use in association with the SAA Wiring Rules (AS 3000) and relevant mining regulations. It describes requirements in respect of design, construction and marking of flameproof enclosures and includes a section on testing. It supersedes both AS 2034—1982, Electrical Equipment for Explosive Atmospheres—Flameproof Electric Lighting Fittings, and AS 2480—1981.

In its terminology, definitions and general treatment of the subject, this standard is similar to corresponding draft specifications issued by the International Electrotechnical Commission and the British Standards Institution.

The major differences between this edition and AS 2480—1981 are as follows:

(a) Amendment No 1 has been incorporated.

(b) Requirements for lighting fittings (which were previously given in AS 2034) have been incorporated.

(c) New requirements for plugs and sockets have been added.

(d) A relaxation has been made (in Clause 2.11.1) in the wall thickness surrounding a threaded hole which forms part of a spigot joint.

(e) The pipe sizes in Table 2.2 have been amended in order to align with the forthcoming new edition of AS 3000.

(f) A new requirement for a bonding terminal has been added.

(g) An amendment has been made to the pressure test in order to take account of any external pressures which might enter the flameproof enclosure in the event of a breakdown of a flexible partition such as a diaphragm or bellows.

(h) A clarification has been incorporated in the requirements for operating rods and spindles.

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