

AS 2380.9—1991

Australian Standard®

**Electrical equipment for explosive
atmospheres — Explosion-
protection techniques**

**Part 9: Type of protection n—
Non-sparking**

This Australian Standard was prepared by Committee EL/14 - Electrical Equipment in Hazardous Areas. It was approved on behalf of the Council of Standards Australia on 12 April 1991 and published on 10 June 1991.

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 and Employment, N.S.W.
Department of Minerals and Energy, N.S.W.
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PREFACE

This Standard was prepared by the Standards Australia Committee on Electrical Equipment in Hazardous Areas to supersede AS 2238–1982, *Electrical equipment for explosive atmospheres - Non-sparking apparatus - Type of protection n*. This Standard is intended for the guidance of manufacturers, users, statutory authorities and associated interests. It is Part 9 of a series of Standards dealing with the explosion-protection of electrical equipment intended for use in potentially explosive atmospheres.

In its terminology, definitions and general treatment of the subject, this Standard is similar to IEC 79-15, *Electrical apparatus for explosive gas atmospheres*, Part 15: *Electrical apparatus with type of protection 'n'*, issued by the International Electrotechnical Commission.

Acknowledgment is made of the assistance received from this source.

Attention is drawn to the issue of impact test for which this Standard and IEC 79-15 specify differing impact energy levels.

The major changes in this edition are as follows:

- (a) New requirements have been introduced for the rating of enclosed-break devices and non-incendive components.
- (b) Reference is made to AS 2380.7 for the assessment of energy-limited equipment and circuits.
- (c) Tests in compliance with AS C100 have been deleted.
- (d) Permitting the application to both Group I and Group II equipment.

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