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AS 2062—1997

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Non-destructive testing—Penetrant testing of products and components

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This Australian Standard was prepared by Committee MT/7, Non-destructive Testing of Metals and Materials. It was approved on behalf of the Council of Standards Australia on 12 September 1997 and published on 5 December 1997.

The following interests are represented on Committee MT/7:

Australasian Railway Association

Australian Aerospace Non-Destructive Testing Committee

Australian Institute for Non-Destructive Testing

Australian Nuclear Science and Technology Organization

Australian Pipeline Industry Association

AUSTROADS

Bureau of Steel Manufacturers of Australia

Electricity Supply Association of Australia

Industrial Research Limited, New Zealand

Institution of Engineers, Australia

Metal Trades Industry Association of Australia

National Association of Testing Authorities, Australia

New Zealand Non-Destructive Testing Association

Society of Automotive Engineers — Australasia

Victorian WorkCover Authority

Welding Technology Institute of Australia

WorkCover New South Wales

Additional interests participating in preparation of Standard:

Aircraft maintenance laboratories

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This Standard was issued in draft form for comment as DR 93195 and DR 95405.

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Non-destructive testing—Penetrant testing of products and components

Originated in part as AS B260.3A—1968 (being endorsement of BS 3889.3A:1965 with Amendment).
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MT/7, Non-destructive Testing of Metals and Materials, to supersede AS 2062—1977, *Methods for non-destructive penetrant testing of products and components.*

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard.

The objective of this revision is to upgrade the requirements for penetrant testing of non-porous products and components for the detection of discontinuities that are open to the surface. The Standard covers both site and factory testing.

This Standard now requires that all materials comply with MIL-I-25135E—1989, *Inspection materials, Penetrants*. As a result, AS 2565—1982, *Non-destructive testing—Penetrant testing media*, is to be withdrawn.

During the preparation of this revision, cognizance was taken of the following International and National Standards:

ISO
3452 (1984): Non-destructive testing—Penetrant inspection—General principles

3453 (1984): Non-destructive testing—Liquid penetrant inspection—Means of verification

ASTM
E 1417-95a Practice for liquid penetrant examination

Members of the committee were in agreement that this Standard should align with ASTM E 1417, which is more up-to-date than the two international Standards.

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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