

AS 2062—1997

Australian Standard[®]

**Non-destructive testing—Penetrant
testing of products and components**

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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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 As a result, AS 2565—1982, *Non-destructive testing—Penetrant testing media*, is to be withdrawn.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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