

Australian Standard<sup>®</sup>

**Non-destructive testing—Glossary of terms**



This Australian Standard® was prepared by Committee MT-007, Non-destructive Testing of Metals and Materials. It was approved on behalf of the Council of Standards Australia on 9 June 2009.

This Standard was published on 31 August 2009.

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The following are represented on Committee MT-007:

- Australian Aerospace Non-Destructive Testing Committee
  - Australian Industry Group
  - Australian Institute for Non-Destructive Testing
  - Australian Nuclear Science & Technology Organisation
  - Australian Pipeline Industry Association
  - Bureau of Steel Manufacturers of Australia
  - Engineers Australia
  - Metals Trade Industry Association
  - National Association of Testing Authorities Australia
  - New Zealand Non-Destructive Testing Association
  - NSW WorkCover Authority
  - Victorian WorkCover Authority
  - Welding Technology Institute of Australia
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This Standard was issued in draft form for comment as DR 07269.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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**Non-destructive testing—Glossary of terms**

Originated as AS B259 Parts 1-5 (1968).  
Previous edition AS 1929—1981.  
Third edition 2009.

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Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia  
ISBN 0 7337 9233 2

## PREFACE

This Standard was prepared by the Australian members of the Joint Standard Australia/New Zealand Committee MT-007, Non-destructive Testing and Metals and Materials. This Standard supersedes AS 1929—1981, *Non-destructive testing—Glossary of terms*.

After consultation with shareholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide a list of current terms used in the non-destructive testing industry and to delete terms from the Standard that have become redundant.

The objective of this edition is to revise the terms used in non-destruction testing and to introduce terms that relate to condition monitoring, in particular infrared thermography.

During the revision of this Standard, the committee considered only those terms in constant use in the non-destructive testing industry in Australia, and which relate to non-destructive testing methods.

During the preparation of this Standard, cognisance was taken of the following Standards:

ISO

- 5576 Non-destructive testing—Industrial X-ray and gamma ray radiography—Vocabulary
- 5577 Non-destructive testing—Ultrasonic inspection—Vocabulary
- 12706 Non-destructive testing—Terminology—Terms used in penetrant testing
- 12716 Non-destructive testing—Acoustic emission inspection—Vocabulary
- 13372 Condition monitoring and diagnostics of machines—Vocabulary
- 18434 Condition monitoring and diagnostics of machines—Thermography
- 18434-1 Part 1: General procedures

Terms that specifically relate to a particular field of testing have been placed in the appropriate section, and cross referencing has been used where terms are related.

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## FOREWORD

Many terms that relate to the non-destruction testing industry are known by more than one name, but, unfortunately, each name is not always used with the same meaning; moreover, in the case of some defects/methods, the same name may be used by two persons to indicate two entirely different types of defects/methods. Such variations in meaning have led to confusion, especially where writing is the only form of communication in the exchange of ideas.

This Standard concentrates on definitions of those terms that relate to the non-destructive testing industry.