



# **Non-destructive testing – Penetrant testing**

## **Part 1: General principles**



AS ISO 3452.1:2020

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The following are represented on Committee MT-007:

- Australasian Thermographers Association
- Australian Institute for Non-Destructive Testing
- Australian Nuclear Science and Technology Organisation
- Austrroads
- Engineers Australia
- Institute of Electrical Inspectors
- National Aerospace Non-Destructive Testing Board of Australia
- Weld Australia

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## Part 1: General principles

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## Preface

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee MT-007, Non-Destructive Testing of Metals and Materials, to supersede AS 2062—1997, *Non-destructive testing — Penetrant testing of products and components*.

After consultation with stakeholders 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 specify a method of penetrant testing used to detect discontinuities, e.g. cracks, laps, folds, porosity and lack of fusion, which are open to the surface of the material to be tested. It is mainly applied to metallic materials, but can also be performed on other materials, provided that they are inert to the test media and not excessively porous (castings, forgings, welds, ceramics, etc.)

This Standard also includes requirements for process and control testing, but is not intended to be used for acceptance criteria and gives neither information relating to the suitability of individual test systems for specific applications nor requirements for test equipment.

This Standard is identical with, and has been reproduced from, ISO 3452-1:2013, *Non-destructive testing — Penetrant testing — Part 1: General principles*.

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# Contents

Preface .....	ii
Foreword .....	v
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>4 Safety precautions .....</b>	<b>1</b>
<b>5 General principles .....</b>	<b>2</b>
5.1 Personnel .....	2
5.2 Description of the method .....	2
5.3 Process sequence .....	2
5.4 Equipment .....	3
5.5 Effectiveness .....	3
<b>6 Products, sensitivity and designation .....</b>	<b>3</b>
6.1 Product family .....	3
6.2 Testing products .....	3
6.3 Sensitivity .....	3
6.4 Designation .....	3
<b>7 Compatibility of testing materials with the part(s) to be tested .....</b>	<b>4</b>
7.1 General .....	4
7.2 Compatibility of penetrant testing products .....	4
7.3 Compatibility of penetrant testing materials with parts under examination .....	4
<b>8 Test procedure .....</b>	<b>5</b>
8.1 Written test procedure .....	5
8.2 Precleaning .....	5
8.2.1 General .....	5
8.2.2 Mechanical precleaning .....	5
8.2.3 Chemical precleaning .....	5
8.2.4 Drying .....	5
8.3 Temperature .....	5
8.4 Application of penetrant .....	5
8.4.1 Methods of application .....	5
8.4.2 Penetration time .....	6
8.5 Excess penetrant removal .....	6
8.5.1 General .....	6
8.5.2 Water .....	6
8.5.3 Solvents .....	6
8.5.4 Emulsifier .....	6
8.5.5 Water and solvent .....	6
8.5.6 Excess penetrant removal check .....	7
8.5.7 Drying .....	7
8.6 Application of developer .....	7
8.6.1 General .....	7
8.6.2 Dry powder .....	7
8.6.3 Water-suspendable developer .....	8
8.6.4 Solvent-based developer .....	8
8.6.5 Water-soluble developer .....	8
8.6.6 Water- or solvent-based for special application (e.g. peelable developer) .....	8
8.6.7 Development time .....	8
8.7 Inspection .....	9
8.7.1 Viewing conditions .....	9
8.7.2 General .....	9

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