STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2205.7.2—2003

Methods for destructive testing of welds in metal

Method 7.2: Dropweight fracture toughness test for nil-ductility transition temperature

RECONFIRMATION NOTICE

Major stakeholders of this publication have reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 12 January 2018.

NOTES

AS 2205.7.2—2003
Reconfirmed 2018

Australian Standard™

Methods for destructive testing of welds in metal

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PREFACE

This Standard was prepared by the Standards Australia Committee WD-006, Testing of Welds, to supersede AS 2205.7.2—1997.

The objective of this edition is to update the Standard and include editorial changes in accordance with current Standards Australia editorial policy.

METHOD

1 SCOPE

This Standard sets out a method for dropweight testing of a welded joint to determine the nil-ductility transition temperature of a selected area of metal in the weld zone.

NOTE: For the purposes of this Standard, welding consumables are taken to mean electrodes, filler metals, fluxes and gases.

2 REFERENCED DOCUMENT

The following document is referred to in this Standard:

AS
1663 Method for dropweight test for nil-ductility transition temperature of ferritic steels

3 PRINCIPLE

A test specimen is prepared and tested in a specified manner and the nil-ductility transition temperature of a selected area of metal in the weld zone is determined.

4 PREPARATION OF TEST SPECIMEN

4.1 Type and dimensions

The shape, dimensions and method of preparation of the test specimen shall be in accordance with AS 1663.

4.2 Location of specimen

The location and orientation of the test specimen and the notch relative to the weld shall be one of the positions shown in Figure 1, or as specified in the application Standard. A transverse section of the specimen shall be etched to distinguish between the weld metal, heat-affected zones and the parent metal, to ensure that the notch will be located correctly.