STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 2205.9.1—2003
Methods for destructive testing of welds in metal
Method 9.1: Hot cracking test

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 2205.9.1—2003
Reconfirmed 2018

Australian Standard™

Methods for destructive testing of welds in metal

Method 9.1: Hot cracking test

PREFACE

This Standard was prepared by the Standards Australia Committee WD-006, Testing of Welds, to supersede AS 2205.9.1—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 hot cracking testing of a welded joint. The test determines the susceptibility of weld metal to cracking while at elevated temperatures during or just after welding and is applied principally to ferritic steels.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
2205 Methods for destructive testing of welds in metal
2205.1 Method 1: General requirements for tests
2812 Welding, brazing and cutting of metals—Glossary of terms

3 PRINCIPLE

A test piece is prepared under specified conditions and then visually examined. The root of one weld is subjected to tension by bending and then examined for evidence of hot cracking.

4 PREPARATION OF TEST SPECIMEN

The test piece shall be prepared in accordance with the requirements of AS 2205.1 and the following:

(a) *Material* The test piece shall made from parent metal as specified in the application Standard.

(b) *Assembling the test piece* The test piece shall be prepared in readiness for making the test welds by assembling in the following sequence:

(i) The surfaces of the parent metal at or near the welds shall be cleaned and free from oil, so that the result is not influenced by the transfer of sulfur from contaminated parent metal to the weld.