

STANDARDS AUSTRALIA

RECONFIRMATION

OF

1580.503.1—2006

Paints and related materials—Methods of test

Method 503.1: Determination of water by the Dean and Stark method

RECONFIRMATION NOTICE

Technical Committee CH-003 has 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 27 April 2016.

The following are represented on Technical Committee CH-003:

Australasian Corrosion Association
Australian Institute of Building
Australian Paint Manufacturers' Federation
Australian Wall and Ceiling Association
CSIRO
Institution of Professional Engineers New Zealand
Master Painters Australia
Master Painters New Zealand Association
National Association of Testing Authorities Australia
National Painting and Decorating Institute
Safe Work Australia
Surface Coatings Association Australia

NOTES

Australian Standard®

AS 1580.503.1—2006

Paints and related materials—Methods of test**Method 503.1: Determination of water by the Dean and Stark method**

PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CH-003, Paints and Related Materials to supersede the 1994 edition of the Standard.

METHOD

1 SCOPE

This method describes a procedure for determining water in Aluminium or Zinc base paints or paint materials, other than water-based paints, using a Dean and Stark apparatus complying with AS 4333.

2 REFERENCED DOCUMENT

The following document is referred to in this Standard:

AS
4333 Dean and Stark apparatus

3 PRINCIPLE

A sample of the test paint is mixed with toluene and a small volume of amyl or ethyl acetate and boiled in a flask connected to the Dean and Stark apparatus. Distillation is continued until water recovery ceases. The volume of water collected is then measured and reported as a percentage of the mass of the test sample.

4 OCCUPATIONAL HEALTH AND SAFETY GUIDANCE

The following criteria apply:

- (a) During handling, the precautions for use, as outlined in supplier's Materials Safety Data Sheet (MSDS) should be followed.
- (b) Appropriate safety precautions should be observed when handling hot items.
- (c) Wearing safety glasses is recommended during the process.