
RECONFIRMATION
OF
AS/NZS 1580.214.5:1997
Paints and related materials—Methods of test
Method 214.5: Consistency—Rotational viscometer

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 30 May 2013.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 26 August 2013.

The following are represented on Technical Committee CH-003:

Australasian Corrosion Association
Australian Paint Approval Scheme
Australian Paint Manufacturers' Federation
Australian Pipeline Industry Association
Institution of Professional Engineers New Zealand
Master Painters New Zealand Association
Water Corporation Western Australia

NOTES

Australian/New Zealand Standard®

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH/3, Paints and Related Materials as a revision of AS 1580.214.5—1990.

The objective of this Standard is to provide a method that uses the Brookfield-type of viscometer to determine the consistency of Newtonian and non-Newtonian types of liquids.

This Standard has been rewritten and eliminates the physical characteristics and references to viscometer model numbers that appeared in the previous edition. It differs from the previous edition in the description of the thermometer, eliminates the need for referee conditions when conditioning non-Newtonian materials, modifies the procedures to include the use of viscometers with a digital display and also includes a single method for sample preparation.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

METHOD

1 SCOPE This Standard sets out the procedure for determining the apparent dynamic viscosity of paints and related liquids using the rotational (Brookfield-type) viscometer.

NOTE: The suitability and applicability of this method is discussed in AS/NZS 1580.214.0.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS/NZS

1580 Paints and related materials—Methods of test

1580.214.0 Method 214.0: Rheological properties—Guide to test methods

3 PRINCIPLE The spindle of a Brookfield type viscometer is driven at a constant rotational frequency in the product being tested. The resistance exerted by the fluid on the spindle, which depends on the viscosity of the product, causes a torque which is indicated by a suitable meter. This measurement may be based on tightening of a spiral spring depending on the torque and is indicated by the movement of a needle on a dial or a digital read-out.