
Paints and related materials—Methods of test

Method 202.3: Determination of specific gravity of liquids by hydrometer

METHOD

1 SCOPE

This Method is used for determining the density of low viscosity liquids such as solvents and related materials by means of a hydrometer.

2 REFERENCED DOCUMENTS

AS

1580 Paints and related materials—Methods of test

1580.101.4 Method 101.4: Conditions of test—Temperature control

1580.102.1 Method 102.1: Sampling procedure

1580.103.1 Method 103.1: Examination and preparation of samples for testing

3 PRINCIPLE

A hydrometer is floated in thin liquids and the specific gravity is taken. This method is suitable for low viscosity liquids such as solvents, thinners and stains.

4 APPARATUS

4.1 Hydrometer

Required to cover a range between 0.700–1.150 kg/L or as required.

4.2 Measuring cylinders

450 mL transparent measuring cylinders shall be used unless designated otherwise.

4.3 Calibrated thermometer

A thermometer capable of measuring to 25°C with an accuracy of $\pm 0.5^\circ\text{C}$.

5 TEST CONDITIONS

The test shall be carried out under the conditions specified in AS 1580.101.4.

6 HEALTH AND SAFETY

During handling follow precautions for use outlined in suppliers Materials Safety Data Sheets (MSDS).

7 PROCEDURE

Prepare a sample of material to be tested (sampled according to AS 1580.102.1 and prepared in accordance with the procedures described in AS 1580.103.1). The following procedure applies: