Australian Standard™

Paints and related materials—Methods of test

Method 202.4: Determination of density by pressure cup

METHOD

1 SCOPE

This test method is for determination of the density of liquid paints that are subject to aeration by a metal pycnometer capable of having pressure applied to deflate the aeration.

2 REFERENCED DOCUMENTS

AS
1580 Paints and related materials—Methods of test
1580.102.1 Method 102.1: Sampling procedure
1580.103.1 Method 103.1: Examination and preparation of samples for testing

3 APPARATUS

3.1 Cup

A cup with a nominal volume of 100 ml calibrated at 25°C ±0.5°C to within 0.2%. Calibration may be done with distilled water.

3.2 Balance

A balance, accurate to within 0.01 g.

3.3 Thermometer

A thermometer capable of measuring to 25°C with an accuracy of ±0.5°C.

4 TEST CONDITIONS

While testing environment may be at ambient temperature, the temperature of the cup and the paint shall be controlled at 25.0°C ±1°C.

5 SAFETY

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

6 PROCEDURE

Prepare a sample of the 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:

(a) Weigh the empty, dry pycnometer and lid to the nearest 0.01 g and record the mass. Alternatively, place the pycnometer on the balance and then tare the balance.

(b) Adjust the test sample to a temperature of 25°C ±0.5°C.