Specific Gravity (Density) Cups

Thank you for purchasing a Specific Gravity (Density) Cup from Ascott. Please read these instructions carefully and retain for future reference.

Important Information

This equipment should only be used as intended by suitably qualified and trained personnel.

These instructions should be always readily available to such personnel.

Normal common-sense safety precautions must be taken at all times to avoid the possibility of accidents. We recommend that users produce their own risk assessment for the entire testing process for which this equipment will be used.

1. Introduction

The Density of a coating should remain constant from batch to batch. Also known as Density (Specific Gravity) Cups. Pycnometers are used to determine the specific weight per unit volume of a liquid at a given temperature.

A stainless steel or anodized aluminum precision instrument for determining the specific weight of paints and similar products. A tolerance of 0.1% is guaranteed. Testing is carried out in accordance with ISO at 23±2℃

The instrument consists of a cylindrical container and cover with an aperture for any excess Paint (or Ink) to be removed when the cup cover is pressing tightly. By doing so, will also ensure that no air bubbles (or pockets of air) are being trapped.

Relevant Standards: DIN 53217, ISO 2811, BS 3900 A19.

2. Ordering Information

Product Code	Capacity	Material
T01-60801	37cc/ml	Stainless Steel
T01-60855	50cc/ml	Aluminum
T01-60865	50cc/ml	Stainless steel
T01-60850	100cc/ml	Aluminum
T01-60860	100cc/ml	Stainless steel

3. Method:

3.1 Weigh the clean density cup when empty and record the weight

3.2 Temper the density cup and test the liquid （20℃±0.5℃；68°F±1.0°F）

3.3 Fill the density cup

3.4 Place the cover on whilst keeping the cup stable and without tilting

3.5 Avoid creating any air bubbles

3.6 Remove any overflowing liquid carefully with an absorbent cloth

3.7 Weigh the filled density cup

3.8 Calculate the density as follows:

Density of Liquid(g/ml)=Mass of Liquid(gram)/Volume of the Cup (ml)

If you have any queries regarding your new equipment, or require any additional accessories or consumables, please contact info@ascottshop.com or telephone +44 (0)1827 318049. If you wish to contact us by post, our full mailing address is 6-8 Gerard, Tamworth, Staffordshire, B79 7UW