



## REF 1501 AND 1503 SPECIFIC GRAVITY CUPS (PYKNOMETERS)



### INTRODUCTION

The cups are designed for use in the Determination of Density of liquids in respect of National Standards B.S. 3900 part A19 -1998, ISO 2811 -1:1997, DIN 53217 and ASTM 1475.

Three sizes are offered; 50cc, 100cc and 83.3cc (US gallon), available in both high strength aluminium or stainless steel. To facilitate the use of two-pan laboratory balances counterpoise tare weights can be supplied to order.

The manufacturing tolerance on the closed volume is  $\pm 0.2\%$  over the range of  $15^{\circ}$  -  $25^{\circ}$  Centigrade.

### METHOD OF USE

1. Determine the weight of a clean cup in grams.

As an alternative, the cup may be supplied with an accurate tare weight for use with two-pan laboratory balances.

2. Remove cover and fill within 2mm of brim with the material to be tested.
3. Carefully replace cover so that air and excess material is expelled through vent.
4. Wipe over cover to remove surplus and reweigh. By subtracting the original weight of the cup the weight of the contents will be found. If a tare weight was used at the start the balance will show the weight of the contents.
5. Clean thoroughly immediately after use.

WHEN USING THE 100 cm<sup>3</sup> CUP THE FOLLOWING CALCULATIONS APPLY:

- |                             |   |  |
|-----------------------------|---|--|
| (a) Lb. per Imperial Gallon | = | Weight of Contents (in grams) x 0.1                |
| (b) Specific Gravity        | = | Weight of Contents (in grams) x 0.01               |
| (c) Grams per litre         | = | Weight of Contents (in grams) x 10                 |
| (d) Kilogrammes per Litre   | = | $\frac{\text{Weight of Contents (in grams)}}{100}$ |

WHEN USING THE 50 cm<sup>3</sup> CUP THE FOLLOWING CALCULATIONS APPLY:

- |                             |   |   |
|-----------------------------|---|---|
| (a) Lb. per Imperial Gallon | = | Weight of Contents (in grams) x 0.2               |
| (b) Specific Gravity        | = | Weight of Contents (in grams) x 0.02              |
| (c) Grams per litre         | = | Weight of Contents (in grams) x 20                |
| (d) Kilogrammes per Litre   | = | $\frac{\text{Weight of Contents (in grams)}}{50}$ |

WHEN USING THE U.S. TYPE OF WEIGHT PER GALLON CUP THE FOLLOWING CALCULATIONS APPLY:

- |                         |   |                                       |
|-------------------------|---|---------------------------------------|
| (a) Lb. per U.S. Gallon | = | Weight of Contents (in grams) x 0.1   |
| (b) Specific Gravity    | = | Weight of Contents (in grams) x 0.012 |

### ORDERING INFORMATION

Ref. 1501/50 - 50cc Aluminium

Ref. 1503/50 - 50cc Stainless Steel

Ref. 1501/100 - 100cc Aluminium

Ref. 1503/100 - 100cc Stainless Steel

Ref. 1501/A - 83.3cc US Aluminium

Ref. 1503/A - 83.3cc US Stainless Steel

Ref. 1501/CW - Counterpoise (tare) weight

Owing to continuous development, we reserve the right to introduce improvements and modify specifications without prior notice.

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