



Instrument Description

Sub Folder: Physical Analysis

Specific Gravity: Pycnometer-Specific Gravity Cup

Principle:

The specific gravity cup is a stainless steel precision instrument used to determine the specific gravity of paints and similar products. Specific Gravity, density, is defined as weight per unit volume at a specified temperature.

The instrument consists of a cylindrical container and cover with a hole for allow excess liquid to escape.

- Weigh the Cup when empty
- Fill with the liquid
- Place lid on the Cup*
- Weigh the Gravity Cup when full and divide the weight by the volume to determine the Specific Gravity

*Note that each Cup has an escape hole in the lid to allow excess liquid to escape. Any excess liquid should be removed before weighing.

Current model:



Figure: Pycnometer

Typical samples:

The specific gravity of liquids, paints, varnishes etc. are determined using the pycnometer.

Standards:

Samples can be assessed in accordance with the relevant standards

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