

DENSITY

DENSITY CUP OR PYCNOMETER



This is a precision stainless steel instrument for determining the specific gravity or density of paints and similar products.

STANDARDS

ISO 2811 · DIN 53217 · ASTM D1475 · ASTM D891-B · ASTM D333 · ASTM D2805 · FTMS 141 · FTMS 4183 · JIS K 5600-2-4 · NBN T22-110 · NFT 30-020

GENERAL FEATURES

This instrument consists of a container and its corresponding lid, fitted with an orifice for draining off excess test liquid.

It is manufactured in two capacities: 50 or 100 cc, with or without a tare function for balanced measurements.

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INSTRUCTION FOR USE

- Determine the weight of the clean vessel in grams using a precision balance. Alternatively, the vessel can be supplied with an exact tare weight.

- Remove the lid and fill with the liquid to be tested.

- Carefully replace the lid so that air and any excess material escape through the outer hole.

- Wipe the lid thoroughly to remove any excess liquid and place the filled beaker back on the balance.

- Subtract the original weight of the beaker to find the weight of the contents. If a tare weight is used at the start, the balance will display the weight of the contents.

- Divide the weight of the beaker by its volume/capacity to determine the specific gravity.

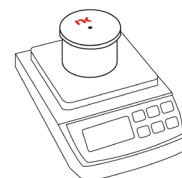
- The formulas for calculating density and specific gravity are:

- Density = Weight / Unit of volume

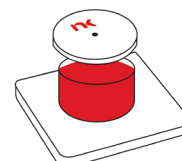
- Specific gravity = Density of the material / Density of water at the same temperature

Note: 50 cc = 50 cm³ = Volume; 100 cc = 100 cm³ = Volume.

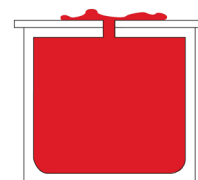
- Clean thoroughly immediately after use.



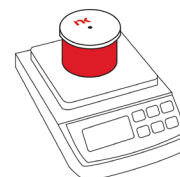
1. Weigh the beaker without any liquid



2. Fill the beaker to the top



3. Carefully replace the lid and pour off any excess liquid



4. Weigh the full beaker with the lid on and subtract the weight of the empty beaker and lid

MODELS

Pycnometer

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Code	Model
NK-DC2000-50	DC2000 pycnometer with 50 cm ³ stainless steel density cup
NK-DC2000-100	DC2000 pycnometer, stainless steel density cup, 100 cm ³
NK-DC2000-50T	DC2000 pycnometer, stainless steel density cup, 50 cm ³
NK-DC2000-100T	DC2000 pycnometer, stainless steel density cup with tare, 100 cm ³

Optional calibration	Code	Description
✓	SER-CT045	Calibration Certificate for Pycnometers.