METAL PYKNOMETER

Laboratory apparatus for the determination of the density of coating materials and similar products, in particular liquids with low and medium viscosity at the test temperature.

The density is an essential quality characteristic, for example, it allows recognising errors regarding the composition and gives indications of the purity of a product.
The test principle is based on the weighting of a given volume of the liquid under test as it is defined by the pyknometer.

From the difference of the masses of the filled and the empty pyknometer as well as the known filling volume the density is calculated.

Handling

- Weight the carefully cleaned empty pyknometer plus lid and record the mass
- Bring the pyknometer and the substance under test to 23°C +/- 0,5 °C, unless no other test temperature is specified or agreed
- Fill the pyknometer with the substance under test and place the lid firmly in position without tilting, whilst avoiding inclusion of air bubbles
- Remove any excess liquid from the lid using a clean and absorbent cloth
- Weight the filled pyknometer
- Calculate the density, using the following for mula:
  Density = mass (g) of filled pyknometer minus mass (g) of empty pyknometer, divided by the volume (ml) of the pyknometer
- Do not use sharp-edged objects when cleaning the pyknometer in order to avoid damaging, but a suitable solvent.

Application/Application Areas

- Laboratory apparatus for the quality control and for experimental purposes.
- For very different branches of industry, e.g. for the paint, cosmetics, food, cleaning agents industries and the chemical industry in general, as well as for technical highschools, universities and testing institutes

Standard extent of delivery

- 1 pyknometer, consisting of a cylindrical beaker with a lid having a hole
- 1 certificate of manufacturer

Options

- Certificate of Calibration

Technical specifications

Material
Stainless steel

Manufacturing
+/- 0,2 %, related to the volume

Tolerance
As option with certificate of calibration +/- 0,1%

Physical specifications

Filling volume
ZPM 3030.50: 50 ml
ZPM 3030.100: 100 ml

Height/diameter
ZPM 3030.50: 35 mm x ø 54 mm
ZPM 3030.100: 63 mm x ø 54 mm

Weight
ZPM 3030.50: 144.1 g
ZPM 3030.100: 174.4 g

Standards

ASTM D 1475, EN ISO 2811-1, SNV 37100, VDA 621-103

RYCOBEL GROUP
Nijverheidslaan 47
8540 Deerlijk , België
T +32 (0)56 78 21 70
F +32 (0)56 77 30 40
E info@rycobel.com
www.rycobel.com

rycobelgroup

Measure Improve Service

METAL PYKNOMETER

Laboratory apparatus for the determination of the density of coating materials and similar products, in particular liquids with low and medium viscosity at the test temperature.

The density is an essential quality characteristic, for example, it allows recognising errors regarding the composition and gives indications of the purity of a product.
The test principle is based on the weighting of a given volume of the liquid under test as it is defined by the pyknometer.

From the difference of the masses of the filled and the empty pyknometer as well as the known filling volume the density is calculated.

Handling

- Weight the carefully cleaned empty pyknometer plus lid and record the mass
- Bring the pyknometer and the substance under test to 23°C +/- 0,5 °C, unless no other test temperature is specified or agreed
- Fill the pyknometer with the substance under test and place the lid firmly in position without tilting, whilst avoiding inclusion of air bubbles
- Remove any excess liquid from the lid using a clean and absorbent cloth
- Weight the filled pyknometer
- Calculate the density, using the following for mula:
  Density = mass (g) of filled pyknometer minus mass (g) of empty pyknometer, divided by the volume (ml) of the pyknometer
- Do not use sharp-edged objects when cleaning the pyknometer in order to avoid damaging, but a suitable solvent.

Application/Application Areas

- Laboratory apparatus for the quality control and for experimental purposes.
- For very different branches of industry, e.g. for the paint, cosmetics, food, cleaning agents industries and the chemical industry in general, as well as for technical highschools, universities and testing institutes

Standard extent of delivery

- 1 pyknometer, consisting of a cylindrical beaker with a lid having a hole
- 1 certificate of manufacturer

Options

- Certificate of Calibration

Technical specifications

Material
Stainless steel

Manufacturing
+/- 0,2 %, related to the volume

Tolerance
As option with certificate of calibration +/- 0,1%

Physical specifications

Filling volume
ZPM 3030.50: 50 ml
ZPM 3030.100: 100 ml

Height/diameter
ZPM 3030.50: 35 mm x ø 54 mm
ZPM 3030.100: 63 mm x ø 54 mm

Weight
ZPM 3030.50: 144.1 g
ZPM 3030.100: 174.4 g

Standards

ASTM D 1475, EN ISO 2811-1, SNV 37100, VDA 621-103

EQUINTECH SARL
3087, Rue de la Gare
59299 Boeschepe, FRANCE
T +33 (0)3 28 40 22 17
F +33 (0)3 28 40 22 51
E info@equintech.com
www.equintech.com

Mesurer Améliorer Service