

Apparent Density Determination

2021:01

DDA/1

Instrument for determining the apparent density (porosity) of raw ceramic tiles.

As the porosity of raw pressed pieces depends on the chemical and physical features of the granulate, its distribution and humidity, as well as the pressing power applied, it is extremely important to know this parameter. This will enable the other variables that contribute towards forming the finished product (i.e. raw and fired mechanical strength, shrinkage etc.) to be determined. Therefore, this method for determining porosity (which allows us to determine the compactness, or the uniformity of compacting, of raw ceramic articles) can be used as alternative, or as a valid support to traditional penetration methods (see Durometer datasheet). The instrument comprises of a burnished steel base with a mobile aluminium arm and a height adjustable stainless steel system for dipping the sample into a mercury (Hg) bath with fine adjustment. It is supplied complete 2kg of bi-distilled mercury and a 80mm diameter glass crystallisation basin.

Overall dimensions: 30 x 40 x 38cm. Net weight 9.2kg
(N.B. An electronic balance with readability of 0.1 grams is also required).



Product Code 01CI4545

Spare Parts & Accessories

Glass crystallization vessel 80mm	60CI0850
Electronic Balance BC5200C model.	10CI7146

Electronic Balance

Electronic balances BE/95 models with features that make them especially suitable for use in industrial laboratories and checks on production lines. These instruments are very compact, solid, attractive and fitted with new, fully tested electronic components.

General characteristics for all models

- LCD display with backlight
- Automatic tare on complete capacity
- Multiple weighing units: g, ct, oz, lb, dwt, GN, tl(hong), tl(Sgp), tl (ROC), momme
- Able to weigh in percentages
- Serial interface RS232
- Function for density of liquids and solids
- Air bubble and levelling feet
- Power supply 230/115 Vac $\pm 15\%$ - 50/60Hz
- Net weight: 4.6 Kg
- Dimension: mm 345x215x100 (h)
- Weighing platform sizes: 175 x 200mm
- Capacity 5200g
- Readability: 0.1 grams

