

## Set of 7 Cubes for Determining Density U8404509

### Instruction sheet

11/07 ALF



#### 1. Description

The cubes in this set allow the densities of various materials to be determined.

The set contains seven cubes made of a variety of materials in a storage container. The cubes are made of aluminium (Al), zinc (Zn), iron (Fe), copper (Cu), brass (Ms), wood and PVC. Metal cubes are labelled as appropriate.

#### 2. Technical data

Materials: Aluminium, iron, zinc, copper, brass, plastic, wood  
Side of cubes: 10 mm

#### 3. Sample experiment

##### Determination of the densities of solid bodies

To determine the density a set of scales will be necessary:

1 Electronic scales 600 g U42050-230  
or  
1 Electronic scales 600 g U42050-115

- Use the scale to determine the mass of a cube.
- Calculate the density of the cubes using the equation

$$\rho = \frac{m}{V}$$

Since the volume of each cube is 1 cm<sup>3</sup>, the mass in grams is equivalent in magnitude to the density.