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

<table>
<thead>
<tr>
<th>Materials</th>
<th>Aluminium, iron, zinc, copper, brass, plastic, wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side of cubes:</td>
<td>10 mm</td>
</tr>
</tbody>
</table>

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 1003429

- 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 cm³, the mass in grams is equivalent in magnitude to the density.