

## ANNEX III

### CYLINDRICAL WEIGHTS

#### 1. **Shape, constituent material and method of manufacture**

- 1.1. Cylindrical shape with a flat knob for gripping.
- 1.2. Material used: any material with a density of 7 to 9.5 g/cm<sup>3</sup>, of a hardness at least equal to that of cast brass, not less resistant to corrosion and not more friable than grey cast iron, and with a surface comparable to that of grey cast iron carefully cast in a mould of fine sand.

Grey cast iron may not be used for weights of a nominal value of less than 100 g.

- 1.3. The method of manufacture to be appropriate to the material chosen.

#### 2. **Adjusting cavity**

- 2.1. Internal cylindrical cavity with a larger diameter in the top part of the cavity.
- 2.2. The cavity is closed by a screw plug of drawn brass or by a brass plug in the form of a smooth disc. The screw plug has a screwdriver slot and the smooth disc has a central lifting hole.
- 2.3. The plug is sealed by a lead cap driven into a circular groove cut out in the wider part of the cavity.
- 2.4. Weights of 1, 2, 5 and 10 g do not have an adjustment cavity.
- 2.5. An adjustment cavity is optional for those of 20 and 50 g.

#### 3. **Adjustment**

- 3.1. After adjustment of the new weight by means of lead shot, two-thirds of the total volume of the cavity remains empty.

#### 4. **Positioning of the EEC initial verification mark**

- 4.1. The final EEC verification mark is stamped on the lead seal of the adjustment cavity.
- 4.2. Weights without adjustment cavities are stamped on the base.

#### 5. **Markings and distinctive symbols**

- 5.1. The indications stating the nominal value of the weight, as well as the manufacturer's identification mark, appear on the upper surface of the head of the weight, either indented **or in relief**.
- 5.2. The nominal value of the weight may be indicated on the body of weights of from 500 g to 10 kg.
- 5.3. The nominal value of the weight is indicated in the form:

1 g, 2 g, 5 g, 10 g, 20 g, 50 g, 100 g, 200 g, 500 g, 1 kg, 2 kg, 5 kg, 10 kg.

#### 6. **Dimensions and their tolerances**

- 6.1. The dimensions to be complied with for the different weights are laid down in Annex IV (dimensions in millimetres).

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*Status: This is the original version (as it was originally adopted).*

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6.2. The tolerances applicable to the various dimensions are the normal manufacturing tolerances.

7. **Maximum permissible errors**

<b>Nominal value.</b>	<b>Maximum permissible errors in milligrammes on initial verification</b>
1 g	+ 5
	— 0
2 g	+ 5
	— 0
5 g	+ 10
	— 0
10 g	+ 20
	— 0
20 g	+ 20
	— 0
50 g	+ 30
	— 0
100 g	+ 30
	— 0
200 g	+ 50
	— 0
500 g	+ 100
	— 0
1 kg	+ 200
	— 0
2 kg	+ 400
	— 0
5 kg	+ 800
	— 0
10 kg	+ 1600
	— 0

8. **Surface finish**

8.1. If necessary, weights are protected against corrosion by a suitable coating resistant to wear and impact; they may be polished.