



Weights

F1 y F2 (high precision weights) E2 (standard weights)

M1 (precision weights) Sets of weights and y sets of fractions

Weights are used with mechanical balances and more frequently for adjustment and verification of electronic balances.

The International Organization of Legal Metrology (OIML) has exactly defined the metrological requirements that verification weights must fulfil worldwide. These requirements are included in the OIML R111 standard that among others makes mention of accuracy, material, shape, identification and maintenance of weights.

Thus, according to OIML a series of classes of accuracy have been established each one of which presents a maximum permissible accuracy class error (tolerance, in \pm mg) during manufacturing.



Class E2

- They are high precision reference standard weights to be used for calibrating high resolution analytical balances class I (max. resolution higher than 100000 d).
- Made of non-magnetic stainless steel.
- Supplied in individual case.

Code	Weight (nominal value)	Tolerance (mg)
KBS002	1 g	± 0.03
KBS003	2 g	± 0.04
KBS004	5 g	± 0.05
KBS005	10 g	± 0.06
KBS006	20 g	± 0.08
KBS007	50 g	± 0.10
KBS008	100 g	± 0.15
KBS009	200 g	± 0.30
KBS010	500 g	± 0.75
KBS011	1 Kg	± 1.50
KBS012	2 Kg	± 3.00
KBS013	5 Kg	± 7.50
KBS014	10 Kg	± 15.00
KBS015	20 Kg	± 30.00
KBS001	Set of 12 fractions 500 mg to 1 mg**	

** Set fraction: 1x1 mg, 2x2 mg, 1x5 mg, 1x10 mg, 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg and 1x500 mg.

Class F1

- High precision weights suitable for control, calibration and adjustment of analytical balances class I with a maximum resolution of approx. 100000 d.
- Made of non-magnetic stainless steel.
- Supplied in individual case.

Code	Weight (nominal value)	Tolerance (mg)
KBT002	1 g	± 0.10
KBT003	2 g	± 0.12
KBT004	5 g	± 0.15
KBT005	10 g	± 0.20
KBT006	20 g	± 0.25
KBT007	50 g	± 0.30
KBT008	100 g	± 0.50
KBT009	200 g	± 1.00
KBT010	500 g	± 2.50
KBT011	1 Kg	± 5.00
KBT012	2 Kg	± 10.00
KBT013	5 Kg	± 25.00
KBT014	10 Kg	± 50.00
KBT015	20 Kg	± 100.00
KBT001	Set of 12 fractions 500 mg to 1 mg**	

** Set fraction: 1x1mg, 2x2 mg, 1x5 mg, 1x10 mg, 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg and 1x500 mg.



Weights

F1 y F2 (high precision weights)
E2 (standard weights)

M1 (precision weights)
Sets of weights and y sets of fractions

Class F2

- High precision weights suitable for calibrating high precision balances class II with a maximum resolution up to approx. 50000 d.
- Made of non-magnetic stainless steel.
- Supplied in individual case.

Code	Weight (nominal value)	Tolerance (mg)
KBV002	1 g	± 0.3
KBV003	2 g	± 0.4
KBV004	5 g	± 0.5
KBV005	10 g	± 0.6
KBV006	20 g	± 0.8
KBV007	50 g	± 1.0
KBV008	100 g	± 1.5
KBV009	200 g	± 3.0
KBV010	500 g	± 7.5
KBV011	1 Kg	± 15.0
KBV012	2 Kg	± 30.0
KBV013	5 Kg	± 75.0
KBV014	10 Kg	± 150.0
KBV015	20 Kg	± 300.0
KBV001	Set of 12 fraction 500 mg to 1mg**	

** Set fraction: 1x1 mg, 2x2 mg, 1x5 mg, 1x10 mg, 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg and 1x500 mg.

Class M1

- Precision weights for commercial and industrial balances class III with a maximum resolution up to 10000 d.
- Made of chrome steel (except stainless steel*).
- Supplied in individual case.

Code	Weight (nominal value)	Tolerance (mg)
KBW002*	1 g	± 1.0
KBW003*	2 g	± 1.2
KBW004*	5 g	± 1.5
KBW005*	10 g	± 2.0
KBW006	20 g	± 2.5
KBW007	50 g	± 3.0
KBW008	100 g	± 5.0
KBW009	200 g	± 10.0
KBW010	500 g	± 25.0
KBW011	1 Kg	± 50.0
KBW012	2 Kg	± 100.0
KBW013	5 Kg	± 250.0
KBW015	10 Kg	± 500.0
KBW017	20 Kg	± 1000.0
KBW001	Set of 12 fraction 500 mg to 1mg**	

** Set fraction: 1x1 mg, 2x2 mg, 1x5 mg, 1x10 mg, 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg and 1x500 mg.



Weight M1 Rectangular weight, industrial use

- According to standard OIML-R111.
- Made of painted cast iron.
- Density 7.02 g/cm³

Code	KBW014	KBW016	KBW018
Weight (nominal value)	5 kg	10Kg	20 Kg
Tolerance (mg)	±250	±500	±1000



Set of weights

- Made of A3 steel, class M2
- Use with mechanical balances.
- The different sets are supplied in a case.



Set of weights 200 g

Code KBR001

- Includes:
- 1 weight of 100 g
 - 1 weight of 50 g
 - 2 weights of 20 g
 - 1 weight of 10 g
 - 1 weight of 5 g
 - 1 forceps



Set of weights 500 g

Code KBR002

- Includes:
- 1 weight of 200 g
 - 2 weights of 100 g
 - 1 weight of 50 g
 - 2 weights of 20 g
 - 1 weight of 10 g
 - 1 forceps



Set of weights 1000 g

Code KBR003

- Includes:
- 1 weight of 500 g
 - 1 weight of 200 g
 - 2 weights of 100 g
 - 1 weight of 50 g
 - 2 weights of 20 g
 - 1 weight of 10 g



Set of weights 2000 g

Code KBR004

- Includes:
- 1 weight of 1 kg
 - 1 weight of 500 g
 - 1 weight of 200 g
 - 2 weights of 100 g
 - 1 weight of 50 g
 - 2 weights of 20 g
 - 1 weight of 10 g

Certification ENAC for weights

Code	Description
KBT016	Certification Enac for weights F1 from 1 mg to 5 kg
KBV016	Certification Enac for weights F2 from 1 mg to 5 kg
KBW019	Certification Enac for weights M1 from 1 mg to 20 kg