



Metric Weight Tolerances - OIML

The table below is a listing of the tolerances of various classes of masses. The weight value can deviate above or below the nominal value by the tolerance defined. To determine the tolerance of a mass, look at the denomination or nominal value of the weight and the appropriate class you need.

		International Organization of Legal Metrology Recommendation R111*						
Denomination Metric	E1	E2	F1	F2	M1	M2	M3	Denomination Metric
	mg	mg	mg	mg	mg	mg	mg	
5000 kg			25 000	80 000	250 000	800 000	2 500 000	5000 kg
3000 kg								3000 kg
2000 kg			10 000	30 000	100 000	300 000	1 000 000	2000 kg
1000 kg		1 600	5 000	16 000	50 000	160 000	500 000	1000 kg
500 kg		800	2 500	8 000	25 000	80 000	250 000	500 kg
300 kg								300 kg
200 kg		300	1 000	3 000	10 000	30 000	100 000	200 kg
100 kg		160	500	1 600	5 000	16 000	50 000	100 kg
50 kg	25	80	250	800	2 500	8 000	25 000	50 kg
30 kg								30 kg
25 kg								25 kg
20 kg	10	30	100	300	1 000	3 000	10 000	20 kg
10 kg	5.0	16	50	160	500	1 600	5 000	10 kg
5 kg	2.5	8.0	25	80	250	800	2 500	5 kg
3 kg								3 kg
2 kg	1.0	3.0	10	30	100	300	1 000	2 kg
1 kg	0.5	1.6	5.0	16	50	160	500	1 kg
500 g	0.25	0.8	2.5	8.0	25	80	250	500 g
300 g								300 g
200 g	0.10	0.3	1.0	3.0	10	30	100	200 g
100 g	0.05	0.16	0.5	1.6	5.0	16	50	100 g
50 g	0.03	0.10	0.30	1.0	3.0	10	30	50 g
30 g								30 g
20 g	0.025	0.08	0.25	0.8	2.5	8.0	25	20 g
10 g	0.020	0.06	0.20	0.6	2.0	6.0	20	10 g
5 g	0.016	0.05	0.16	0.5	1.6	5.0	16	5 g
3 g								3 g
2 g	0.012	0.04	0.12	0.4	1.2	4.0	12	2 g
1 g	0.010	0.03	0.10	0.3	1.0	3.0	10	1 g
500 mg	0.008	0.025	0.08	0.25	0.8	2.5		500 mg
300 mg								300 mg
200 mg	0.006	0.020	0.06	0.20	0.6	2.0		200 mg
100 mg	0.005	0.016	0.05	0.16	0.5	1.6		100 mg
50 mg	0.004	0.012	0.04	0.12	0.4			50 mg
30 mg								30 mg
20 mg	0.003	0.010	0.03	0.10	0.3			20 mg
10 mg	0.003	0.008	0.025	0.08	0.25			10 mg
5 mg	0.003	0.006	0.020	0.06	0.20			5 mg
3 mg								3 mg
2 mg	0.003	0.006	0.020	0.06	0.20			2 mg
1 mg	0.003	0.006	0.020	0.06	0.20			1 mg
0.5 mg								0.5 mg
0.3 mg								0.3 mg
0.2 mg								0.2 mg
0.1 mg								0.1 mg
0.05 mg								0.05 mg

* OIML – International Recommendation R111 replaces International Recommendation numbers 1, 2, 20, 52.
* OIML tolerances shown for weights 100kg and larger are proposed tolerances.