

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
mg	mg	mg	mg	mg	mg	mg	
5000 kg			25 000	80 000	250 000	800 000	2 500 000
3000 kg							
2000 kg			10 000	30 000	100 000	300 000	1 000 000
1000 kg		1 600	5 000	16 000	50 000	160 000	500 000
500 kg		800	2 500	8 000	25 000	80 000	250 000
300 kg							
200 kg		300	1 000	3 000	10 000	30 000	100 000
100 kg		160	500	1 600	5 000	16 000	50 000
50 kg	25	80	250	800	2 500	8 000	25 000
30 kg							
25 kg							
20 kg	10	30	100	300	1 000	3 000	10 000
10 kg	5	16	50	160	500	1 600	5 000
5 kg	2.5	8	25	80	250	800	2 500
3 kg							
2 kg	1	3	10	30	100	300	1 000
1 kg	0.5	1.6	5	16	50	160	500
500 g	0.25	0.8	2.5	8	25	80	250
300 g							
200 g	0.1	0.3	1	3	10	30	100
100 g	0.05	0.16	0.5	1.6	5	16	50
50 g	0.03	0.1	0.3	1	3	10	30
30 g							
20 g	0.025	0.08	0.25	0.8	2.5	8	25
10 g	0.02	0.06	0.2	0.6	2	6	20
5 g	0.016	0.05	0.16	0.5	1.6	5	16
3 g							
2 g	0.012	0.04	0.12	0.4	1.2	4	12
1 g	0.01	0.03	0.1	0.3	1	3	10
500 mg	0.008	0.025	0.08	0.25	0.8	2.5	
300 mg							
200 mg	0.006	0.02	0.06	0.2	0.6	2	
100 mg	0.005	0.016	0.05	0.16	0.5	1.6	
50 mg	0.004	0.012	0.04	0.12	0.4		
30 mg							
20 mg	0.003	0.01	0.03	0.1	0.3		
10 mg	0.003	0.008	0.025	0.08	0.25		
5 mg	0.003	0.006	0.02	0.06	0.2		
3 mg							
2 mg	0.003	0.006	0.02	0.06	0.2		
1 mg	0.003	0.006	0.02	0.06	0.2		
0.5/0.3/0.2/0.1/0.05 mg							