



Metric Weight Tolerances - Old NBS Classifications

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.

		National Bureau of Standards Circular 547 Section 1								
Denomination Metric	J	M		S		S-1	P	Q	T	Denomination Metric
	mg	Ind mg	Grp mg	Ind mg	Grp mg	mg	g & mg	g & mg	g & mg	
5000 kg										5000 kg
3000 kg										3000 kg
2000 kg										2000 kg
1000 kg							20 g	50 g	150 g	1000 kg
500 kg							10	25	75	500 kg
300 kg										300 kg
200 kg							4.0	10	30	200 kg
100 kg							2.0	5	15	100 kg
50 kg						500	1.0	2.5	7.5	50 kg
30 kg										30 kg
25 kg		125		62		250	500 mg	1.2	4.5	25 kg
20 kg		100		50		200	400	1	3.8	20 kg
10 kg		50		25		100	200	500 mg	2.2	10 kg
5 kg		25		12		50	100	250	1.4	5 kg
3 kg		15		7.5		30	60	150	1.0	3 kg
2 kg		10		5.0		20	40	100	750 mg	2 kg
1 kg		5.0		2.5		10	20	50	470	1 kg
500 g		2.5		1.2		5.0	10	30	300	500 g
300 g		1.5		0.75		3.0	6.0	20	210	300 g
200 g		1.0		0.50		2.0	4.0	15	160	200 g
100 g		0.50		0.25		1.0	2.0	9.0	100	100 g
50 g		0.25		0.12		0.60	1.2	5.6	62	50 g
30 g		0.15		0.074		0.45	0.90	4.0	44	30 g
20 g		0.10		0.074		0.35	0.70	3.0	33	20 g
10 g		0.050		0.074		0.25	0.50	2.0	21	10 g
5 g		0.034		0.054		0.18	0.36	1.3	13	5 g
3 g		0.034		0.054		0.15	0.30	0.95	9.4	3 g
2 g		0.034	0.065	0.054	0.105	0.13	0.26	0.75	7.0	2 g
1 g		0.034		0.054		0.10	0.20	0.50	4.5	1 g
500 mg		0.010		0.025		0.080	0.16	0.38	3.0	500 mg
300 mg		0.010		0.025		0.070	0.14	0.30	2.2	300 mg
200 mg		0.010	0.020	0.025	0.055	0.060	0.12	0.26	1.8	200 mg
100 mg		0.010		0.025		0.050	0.10	0.20	1.2	100 mg
50 mg	0.010	0.010		0.014		0.042	0.085	0.16	0.88	50 mg
30 mg	0.010	0.010	0.020	0.014	0.034	0.038	0.075	0.14	0.68	30 mg
20 mg	0.010	0.010		0.014		0.035	0.070	0.12	0.56	20 mg
10 mg	0.010	0.010		0.014		0.030	0.060	0.10	0.40	10 mg
5 mg	0.010	0.010		0.014		0.028	0.055	0.080		5 mg
3 mg	0.010	0.010	0.020	0.014	0.034	0.026	0.052	0.070		3 mg
2 mg	0.010	0.010		0.014		0.025	0.050	0.060		2 mg
1 mg	0.010	0.010		0.014		0.025	0.050	0.050		1 mg
0.5 mg	0.010	0.010		0.014		0.025				0.5 mg
0.3 mg	0.010	0.010	0.020	0.014	0.034	0.025				0.3 mg
0.2 mg	0.010	0.010		0.014		0.025				0.2 mg
0.1 mg	0.010	0.010		0.014		0.025				0.1 mg
0.05 mg	0.010	0.010		0.014						0.05 mg