

Metric Weight Tolerances



Denomina- tion Metric	E1 mg	E2 mg	F1 mg	F2 mg	M1 mg	M2 mg	M3 mg	0 mg	1 mg	2 mg	3 mg	4 g & mg	5 g & mg	6 g & mg	7 g & mg
5000 kg												100 g	250 g		750 g
3000 kg												60 g	150 g		450 g
2000 kg												40 g	100 g		300 g
1000 kg												20 g	50 g		150 g
500 kg												10 g	25 g	50 g	75 g
300 kg												6.0 g	15 g	30	45 g
200 kg												4.0 g	10 g	20	30 g
100 kg												2.0 g	5 g	10	15 g
50 kg	25	80	250	800	2500	8000	25,000	63	125	250	500	1.0 g	2.5 g	5	7.5 g
30 kg								38	75	150	300	600 mg	1.5 g	3	4.5 g
25 kg								31	62	125	250	500 mg	1.2 g		4.5 g
20 kg	10	30	100	300	1000	3000	10,000	25	50	100	200	400 mg	1.0 g	2	3.8 g
10 kg	5	16	50	160	500	1600	5000	13	25	50	100	200 mg	500 mg	1	2.2 g
5 kg	2.5	8.0	25	80	250	800	2500	6	12	25	50	100 mg	250 mg	500 mg	1.4 g
3 kg								3.8	7.5	15	30	60 mg	150 mg	300 mg	1.0 g
2 kg	1.0	3.0	10	30	100	300	1000	2.5	5.0	10	20	40 mg	100 mg	200 mg	750 mg
1 kg	0.5	1.6	5	16	50	160	500	1.3	2.5	5.0	10	20 mg	50 mg	100 mg	470 mg
500 g	0.25	0.8	2.5	8.0	25	80	250	0.60	1.2	2.5	5.0	10 mg	30 mg	50 mg	300 mg
300 g								0.38	0.75	1.5	3.0	6.0 mg	20 mg	30 mg	210 mg
200 g	0.1	0.30	1.0	3.0	10	30	100	0.25	0.50	1.0	2.0	4.0 mg	15 mg	20 mg	160 mg
100 g	0.05	0.16	0.5	1.6	5	16	50	0.13	0.25	0.50	1.0	2.0 mg	9 mg	10 mg	100 mg
50 g	0.03	0.10	0.30	1.0	3.0	10	30	0.060	0.12	0.25	0.60	1.2 mg	5.6 mg	7 mg	
30 g								0.037	0.074	0.15	0.45	0.90 mg	4.0 mg	5 mg	44 mg
20 g	0.025	0.080	0.25	0.8	2.5	8	25	0.037	0.074	0.10	0.35	0.7 mg	3.0 mg	3 mg	33 mg
10 g	0.020	0.060	0.20	0.6	2.0	6	20	0.025	0.050	0.074	0.25	0.5 mg	2.0 mg	2 mg	21 mg
5 g	0.015	0.050	0.15	0.5	1.5	5	15	0.017	0.034	0.054	0.18	0.36 mg	1.3 mg	2 mg	13 mg
3 g								0.017	0.034	0.054	0.15	0.30 mg	0.95 mg	2 mg	9.4 mg
2 g	0.012	0.040	0.12	0.4	1.2	4	12	0.017	0.034	0.054	0.13	0.26 mg	0.75 mg	2 mg	7.0 mg
1 g	0.010	0.030	0.10	0.3	1.0	3	10	0.017	0.034	0.054	0.10	0.20 mg	0.50 mg	2 mg	4.5 mg
500 mg	0.008	0.025	0.08	0.25	0.8	2.5		0.005	0.010	0.025	0.080	0.16 mg	0.38 mg	1 mg	3.0 mg
300 mg								0.005	0.010	0.025	0.070	0.14 mg	0.30 mg	1 mg	2.2 mg
200 mg	0.006	0.020	0.06	0.20	0.6	2		0.005	0.010	0.025	0.060	0.12 mg	0.26 mg	1 mg	1.8 mg
100 mg	0.005	0.016	0.05	0.16	0.5	1.6		0.005	0.010	0.025	0.050	0.10 mg	0.20 mg	1 mg	1.2 mg
50 mg	0.004	0.012	0.04	0.12	0.4			0.005	0.010	0.014	0.042	0.085 mg	0.16 mg		0.88 mg
30 mg								0.005	0.010	0.014	0.038	0.075 mg	0.14 mg		0.68 mg
20 mg	0.003	0.010	0.03	0.10	0.3			0.005	0.010	0.014	0.035	0.070 mg	0.12 mg		0.56 mg
10 mg	0.002	0.008	0.025	0.08	0.25			0.005	0.010	0.014	0.030	0.060 mg	0.10 mg		0.4 mg
5 mg	0.002	0.006	0.020	0.06	0.20			0.005	0.010	0.014	0.028	0.055 mg	0.080 mg		
3 mg								0.005	0.010	0.014	0.026	0.052 mg	0.070 mg		
2 mg	0.002	0.006	0.020	0.06	0.20			0.005	0.010	0.014	0.025	0.050 mg	0.06 mg		
1 mg		0.006	0.020	0.06	0.20			0.005	0.010	0.014	0.025	0.050 mg	0.05 mg		

Reference

Tolerance for weights of denominations between those listed can be determined as follows:

- If the unit of measure is non-metric, convert the nominal value to a metric unit.
- For weights that are between those listed, the tolerance for the next lower weight shall be applied.

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