

Weight Tolerances

Metric

Denomination Metric	105-1
	F g & mg
5000 kg	500 g
3000 kg	300 g
2000 kg	200 g
1000 kg	100 g
500 kg	50 g
300 kg	30 g
200 kg	20 g
100 kg	10 g
50 kg	5.0 g
30 kg	3.0 g
25 kg	2.5 g
20 kg	2.0 g
10 kg	1.0 g
5 kg	500 mg
3 kg	300 mg
2 kg	200 mg
1 kg	100 mg
500 g	70 mg
300 g	60 mg
200 g	40 mg
100 g	20 mg
50 g	10 mg
30 g	6.0 mg
20 g	4.0 mg
10 g	2.0 mg
5 g	1.5 mg
3 g	1.28 mg
2 g	1.12 mg
1 g	0.90 mg
500 mg	0.72 mg
300 mg	0.61 mg
200 mg	0.54 mg
100 mg	0.43 mg
50 mg	0.35 mg
30 mg	0.29 mg
20 mg	0.26 mg
10 mg	0.21 mg
5 mg	0.17 mg
3 mg	0.14 mg
2 mg	0.12 mg
1 mg	0.10 mg

Avoirdupois Weight Tolerances

NIST
Handbook

POUNDS

Denomination Metric	105-1
	F g & mg
10,000 lb	450 g
5000 lb	230
3000 lb	140
2500 lb	110
2000 lb	91
1000 lb	45
500 lb	23
100 lb	4.5
50 lb	2.3
40 lb	
30 lb	1.4
25 lb	1.1
20 lb	910 mg
15 lb	
10 lb	450
9 lb	
8 lb	
7 lb	
6 lb	
5 lb	227
4 lb	
3 lb	136
2 lb	91
1 lb	70
0.5 lb	45
0.3 lb	27
0.2 lb	18
0.1 lb	9.1
0.05 lb	4.5
0.03 lb	2.7
0.02 lb	1.8
0.01 lb	1.5
0.005 lb	1.17
0.003 lb	0.99
0.002 lb	0.87
0.001 lb	0.70
0.0005 lb	
0.0003 lb	
0.0002 lb	
0.0001 lb	
0.00005 lb	
0.00003 lb	
0.00002 lb	
0.00001 lb	

OUNCES

Denomination Metric	105-1
	F mg
12 oz	
10 oz	
8 oz	45
6 oz	
5 oz	
4 oz	23
3 oz	
2 oz	11
1 oz	5.4
1/2 oz	2.8
1/4 oz	1.7
1/8 oz	1.3
1/16 oz	1.1
1/32 oz	0.87
1/64 oz	0.69
0.5 oz	2.8
0.3 oz	1.8
0.2 oz	1.6
0.1 oz	1.3
0.05 oz	1.0
0.03 oz	0.85
0.02 oz	0.75
0.01 oz	0.60
0.005 oz	
0.003 oz	
0.002 oz	
0.001 oz	
0.0005 oz	
0.0003 oz	
0.0002 oz	
0.0001 oz	

**NIST Handbook
44 & NIST Circular 3**

Tolerances have been converted from avoirdupois to metric and rounded to two significant figures.

NIST 105-1 Class F

Tolerances are based on the 1975 revised tolerance structure used by State Weights & Measures.