ASTM E617

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

Nominal Size	Class 0	Class 1	Class 2	Class 3	Class 4
1g	0.017 mg	0.034 mg	0.054 mg	0.10 mg	0.20 mg
2g	0.017 mg	0.034 mg	0.054 mg	0.13 mg	0.26 mg
5g	0.017 mg	0.034 mg	0.054 mg	0.18 mg	0.36 mg
10g	0.025 mg	0.050 mg	0.074 mg	0.25 mg	0.5 mg
50g	0.060 mg	0.12 mg	0.25 mg	0.60 mg	1.2 mg
100g	0.13g mg	0.25 mg	0.50 mg	1.0 mg	2.0 mg
200g	0.25 mg	0.50 mg	1.0 mg	2.0 mg	4.0 mg
500g	0.60 mg	1.2 mg	2.5 mg	5.0 mg	10 mg
1kg	1.3 mg	2.5 mg	5.0 mg	10 mg	20 mg
2kg	2.5 mg	5.0 mg	10 mg	20 mg	40 mg
5kg	6.0 mg	12 mg	25 mg	50 mg	100 mg
10kg	13 mg	25 mg	50 mg	100 mg	200 mg

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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 tolerancefor the next lower weight shall be applied

Nominal Size	Class E2	Class F1	Class M1
1mg	0.006 mg	0.020 mg	0.20 mg
2mg	0.006 mg	0.020 mg	0.20 mg
5mg	0.006 mg	0.020 mg	0.20 mg
10mg	0.008 mg	0.025 mg	0.25 mg
20mg	0.010 mg	0.03 mg	0.30 mg
50mg	0.012 mg	0.04 mg	0.40 mg
100mg	0.016 mg	0.05 mg	0.50 mg
200mg	0.020 mg	0.06 mg	0.60 mg
500mg	0.025 mg	0.08 mg	0.80 mg
1g	0.030 mg	0.10 mg	1.0 mg
2g	0.040 mg	0.12 mg	1.2 mg
5g	0.050 mg	0.16 mg	1.6 mg
10g	0.060 mg	0.20 mg	2.0 mg
20g	0.080 mg	0.25 mg	2.5 mg
50g	0.10 mg	0.30 mg	3.0 mg
100g	0.16 mg	0.5 mg	5.0 mg
200g	0.30 mg	1.0 mg	10.0 mg
500g	0.8 mg	2.5 mg	25.0 mg
1kg	1.6 mg	5 mg	50.0 mg
2kg	3.0 mg	10 mg	100.0 mg