

Which class of test weight should I use?

This is the part most people struggle with and it can be a little confusing. The class is like a rating of the tolerance. The tolerance is the prescribed limit of error - so how far out from the prescribed weight it is allowed to be. This chart shows the tolerances of each class of weight e.g a 20g M1 weight will have a maximum error when supplied of +/- 2.5mg.

There are no definitive rules on which class of weights should to be used for testing weighing equipment but we hope you find the following guidelines useful.

- * The weight should be more accurate than the scale or balance that you are checking unless your tolerances allow otherwise.
- * M3 cast iron weights would normally be used for testing low accuracy scales.
- * M1 iron - for testing standard scales with a resolution of 1g or more
- * M1 stainless steel - for testing scales with 0.1g or 1g resolution
- * F2 Stainless Steel weights are for testing/calibration of balances with a 0.01g/0.1g resolution
- * F1 Stainless Steel Weights are for testing/calibration of precision/analytical with resolution of 0.1/1mg
- * E2 Stainless Steel Weights are for testing/calibration of Analytical/micro balances with resolution 0.1/0.01mg in a laboratory environment