



TW Weight Specifications

Purpose: To define to what tolerances we will make and certify the standard TW (Test Weights) that we sell. This document will be used as the basis for any certificates that ChemInstruments will issue in the future.

The TW's we sell have their basis in fulfilling the PSTC methods that we support through equipment. These specifications do not require overly tight tolerances and this is reflected in the table below. In general the TW's we sell surpass these specifications but care must be taken in defining or discussing this with customers. The specification that our TW's are made to is PSTC 107 5.5.4.1 which calls for 1000grs +/-5gr. This is a rather broad specification and we have narrowed it for the purposes of the weights we sell.

	Min	Target	Max	Diameter	Height (no hook)	Percentage of Acceptable	
TW-50	49.5	50.0	50.5	1.5"	1.2"	1.0%	
TW-100	99.5	100.0	100.5	1.625"	1.05"	0.5%	
TW-200	199.0	200.0	201.0	2"	1.425"	0.5%	
TW-250	248.8	250.0	251.3	2"	1.775"	0.5%	
TW-500	499.0	500.0	501.0	1.625"	1.89"	0.2%	
TW-750	748.5	750.0	751.5	2.375"	1.33"	0.2%	
TW-1000	998.0	1000.0	1002.0	3.375"	1.77"	0.2%	
TW-2000	1996.0	2000.0	2004.0	2.375"	3.53"	0.2%	

This table can be used to extrapolate any additional size weight we may sell. Weights below 100gr are at 1% tolerance or .5gr whichever is greater. Weights above 2000gr use .2% as the tolerance.

Certificates for TW's

- Weights can be issued with a certificate using NIST traceable tools if requested at time of order.
- An individual certificate for each size weight is required, up to 10 weights can be on one certificate.
- If not placed at time of order an additional one hour of labor will be charged for each lot of 10 weights to be certified in addition to the certificate charge.

Notes in Regards to using TW's with Shear Testers

- Shears are designed to be used with weights from 100gr to 1000gr.
- Any weight which is larger than the 1000gr requires the S-EXT(Shear Extension) accessory.
- The largest weight that can be safely used with the shear stand is 3000gr.
- Contact us to enquiry about the usage of larger than 3000gr weights.

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