

Submission Requirements - Cast Iron Weights

All cast iron weights submitted to the Pennsylvania Standards Laboratory for calibration must be properly prepared according to the following requirements:

1. Cast iron weights must be cleaned of all foreign matter such as dirt, rust, grease, concrete, asphalt, and other adhering substances. **The laboratory will not calibrate cast iron weights that are contaminated.**
2. All weights must have **legible** serial numbers.
3. If painting is desired please follow the guidance copied from NISTIR 6969, **GLP 11 Good Laboratory Practice for Painting Cast Iron Weights** below.

GLP 11 (February 2012)

Good Laboratory Practice for Painting Cast Iron Weights

Large cast iron or steel weights should be painted both for their protection and to preserve their mass integrity. Unprotected weights are subject to corrosion. Furthermore, when corrosion is present, the extent and any changes resulting from it may be difficult to estimate.

Thin even coats of aluminum paint are recommended for this purpose. Spray applications are best if large weights or a number of small weights are to be painted. In preparation for painting, a weight should be cleaned and loose scale should be removed using a wire brush (DO NOT remove old paint and corrosion by means of sand blasting or pressure washing. Severe damage may result.). The painting should be done before the weights are calibrated or tolerance tested, unless arrangements are made to obtain "as found" values. If "as found" values are desired, two tests may be required.

Painting should be done in an area reserved for this purpose, or at least in a place which is removed from laboratory measurement operations. Painting operations must be in compliance with applicable safety standards. The weights should be protected from dust or dirt contamination while the coating is drying.