

Guidelines for Submitting Standards to the Wisconsin Weights & Measures Laboratory

Follow NIST specifications for construction, cleanliness, and condition of work submitted to the laboratory for calibration:

ASTM E617, Standard Specification for Laboratory Weights and Precision Mass Standards

NIST Handbook 105-1, Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures

NIST Handbook 105-2, Specifications and Tolerances for Field Standard Measuring Flasks

NIST Handbook 105-3, Specifications and Tolerances for Graduated Neck Type Field Standards

NIST Handbook 105-4, Specifications and Tolerances for Liquefied Petroleum Gas and Anhydrous Ammonia Liquid Volumetric Provers

NIST Handbook 105-8, Specifications and Tolerances for Field Standard Weight Carts

In addition, standards and equipment should meet the following conditions:

Deliver to the laboratory by 9:00am on the day scheduled.

Deliver in “ready to calibrate” condition

- Mass standards should be dry and at room temperature. Do not store standards outside before bringing them in for calibration. If the standards are not room temperature they need to sit in the lab until they reach calibration temperature, which can result in significant delays.
- Test and repair volume standards for leaks, faulty valves prior to delivery.

Include a list of the standards submitted that includes pertinent identifying information i.e. serial number and manufacturer.

Pack standards securely for shipping. Improperly packaged standards often arrive damaged.

Contact information:

Metrology Lab e-mail datcpmetrologylab@wisconsin.gov

Phone: (608) 224-4910 or (608) 224-4911