



National Bureau of Standards

Certificate

Standard Reference Material 1367a

Certified Coating Thickness Calibration Standard

(Nickel on Brass)

This Standard Reference Material (SRM) consists of four 30 x 30 mm coating thickness plates that are designed for calibrating coating thickness gages of the magnetic type used to measure thicknesses of nickel on nonmagnetic substrates. The coatings have the magnetic properties of Watts nickel electrodeposit free of iron and they have been heat-treated at 400 °C for 30 minutes to normalize the magnetic properties.

The thickness values given for the coatings are certified to be within 5% of the true thicknesses.

The nominal coating thicknesses for this SRM are:

Plate 1	3 μm	(0.1 mil)
Plate 2	9 μm	(0.4 mil)
Plate 3	16 μm	(0.6 mil)
Plate 4	25 μm	(1.0 mil)

The certified coating thicknesses are printed on the card.

The coating thicknesses were determined from measurements made on instruments which were calibrated with NBS master standards. To further ensure accuracy, the thickness of one of every 25 plates is determined by gravimetric procedures.

Recalibration services are available at NBS and are suggested if the plates are visibly worn.

May 1, 1984
Washington, DC 20234

Stanley D. Rasberry, Chief
Office of Standard Reference Materials