

# National Bureau of Standards

## Certificate of Analysis

### Standard Reference Material 1109

#### Red Brass

This SRM for red brass is issued in wrought form for application in optical emission and x-ray spectroscopic analysis.

	<u>Percent</u>
Copper .....	82.2
Zinc .....	17.4
Lead .....	0.07 <sub>5</sub>
Tin .....	.10
Iron .....	.05 <sub>3</sub>
Nickel .....	.10
Phosphorus .....	.00 <sub>6</sub>

The value listed for a certified element is the *present best estimate* of the "true" value based on the results of the analytical program. The value listed is not expected to deviate from the "true" value by more than  $\pm 1$  in the last significant figure reported; for a subscript figure, the deviation is not expected to be more than  $\pm 5$ . Based on the results of homogeneity testing, maximum variations within and among samples are estimated to be less than the uncertainty figures given above.

Sample Condition: The sample is supplied in the form of disks 1 1/4 in. in diameter and 3/4 in. thick. The material was prepared by hot-extrusion of cast material, since suitable material could not be prepared by forging. Microscopic examination revealed mixed grain size with some nonworked areas; the samples are not entirely metallurgically uniform.

CAUTION: Because of the nonuniform metallurgical condition, deviations somewhat larger than normal may be encountered in the intended use.

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George A. Uriano, Chief  
Office of Standard Reference Materials