



U. S. Department of Commerce
John T. Connor, Secretary
National Bureau of Standards
A. V. Astin, Director

Certificate of Analysis

Standard Reference Material 1109

Red Brass

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

Sample Condition: The sample is supplied in the form of disks 1¼ in. in diameter and ¾ 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.

Homogeneity: Because of the nonuniform metallurgical condition, deviations somewhat larger than normal may be encountered in the intended use. This sample will only be issued with a provisional certificate.

Intended Use: The sample is one of three compositions in a graded series for red brass in wrought and cast form for application in optical emission and x-ray spectroscopic analysis.

Washington, D. C. 20234
July 14, 1965.

W. Wayne Meinke, Chief,
Office of Standard Reference Materials.