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National Institute of Standards & Technology

Certificate

Standard Reference Material 1894

Copper Microhardness Test Block

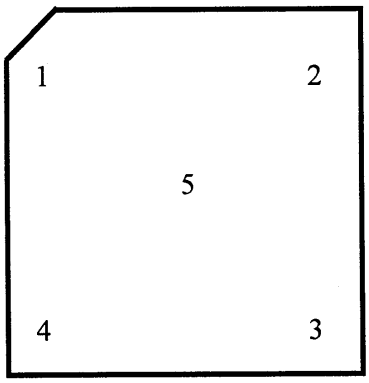
(Vickers)

This Standard Reference Material (SRM) is intended primarily for use in calibrating Vickers-type microhardness testers and is certified for average Vickers hardness values at 0.245, 0.49, and 0.98 N (25, 50, and 100 g-f, respectively). SRM 1894 consists of a 1.35-cm square test block of electrodeposited bright copper (approximately 750 μm thick) on an AISI 1010 steel substrate. The electrodeposited bright copper is protected from corrosion by a 0.1 μm layer of gold. The block is mounted in thermosetting epoxy.

Test Block No.: Lot No.:

Calibrated by: *Date:

Positions of Indentations



Loading (g-f)

	25	50	100
1.			
2.			
3.			
4.			
5.			
Average			

*The date is used for recordation purposes only. There is no need for periodic recertification. The certified hardness values are stable with proper care and handling of the test block.

The average values are certified to be within $\pm$ 5% of the true value.

The Vickers hardness measurement was made according to ASTM Test Methods E 384 and B 578.

Gaithersburg, MD 20899
November 2, 1994
(Revision of certificate dated 3-20-92)

Thomas E. Gills, Chief
Standard Reference Materials Program

(over)

Hardness values for this SRM were obtained using a calibrated hardness tester. The optical measuring device of the hardness tester was calibrated with a certified stage micrometer while the loading mechanism was calibrated with a miniature precision load cell that had been previously calibrated with NIST certified weights. The indentations are measured at a total magnification of 1000 using a 100X dry lens objective with a numerical aperature of 0.90.

The microhardness test block was fabricated and calibrated in the NIST Materials Science and Engineering Laboratory, Metallurgy Division's Electrochemical Processing Group, by D.R. Kelley, C.E. Johnson, S.W. Claggett, and P.N. Sharpless.

The overall direction of the technical effort leading to certification of this Standard Reference Material was performed under the direction of G.R. Stafford, Metallurgy Division: technical coordination was performed by E.C. Soltani and E. Escalante, Electrochemical Processing Group.

The support aspects involved in the issuance of this SRM were coordinated through the Standard Reference Materials Program by N.M. Trahey.

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