

## **Bright copper - Hardness (Knoop)**

Art. ID	NIST-1893
Unit	each
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material (SRM®) is intended primarily for use in calibrating Knoop-type microhardness testers and is certified for mean Knoop hardness values at loads of 0.245 N, 0.490 N, and 0.980 N (0.025 kgf, 0.050 kgf, and 0.100 kgf, respectively). A unit of NIST-1893 consists of a square test block of electrodeposited bright copper on an AISI 1010 steel substrate. The test block measures 1.35 cm on each side, is approximately 1.5 mm thick, and is mounted in a thermosetting epoxy. The electrodeposited bright copper is protected from corrosion by a 0.1 µm layer of gold. Knoop hardness values are reported as Knoop hardness numbers (HK) in units of kgf/mm<sup>2</sup> and SI units of gigapascals (GPa). Each SRM was individually measured and bears a serial number imprinted on the side of the epoxy mount. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Individually measured	Hardness (Knoop)					