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Nickel sphere for magnetic moment

Art. ID	NIST-772a
Unit	each
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is intended for use in the calibration of magnetometers (such as vibrating sample magnetometers) used in the measurement of the magnetic properties of materials. NIST-772a consists of a nickel sphere 2.383 mm in diameter with a mass of 63.16 mg. The NIST-772a lot was produced from annealed nickel wire with a purity of 99.999 %. The wire was ground into spheres. The spheres were then ultrasonically cleaned in acetone and methyl alcohol and annealed at 1220 K in a dry hydrogen atmosphere for 2 h. The microstructure is equiaxed with an average grain size of about 100 µm. The certified value for magnetic moment, m, at 298 K and in an applied field of 398 kA/m (5000 Oe) is: /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Magnetic moment		m = 3.47 mAÂ•m2 ± 0.01 mAÂ•m2 (3.47 emu ± 0.01 emu)			