

Magnetic moment standard - Nickel disc

Art. ID	NIST-762
Unit	6 mm dia
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-762 consists of a nickel disc nominally 6 mm in diameter with a thickness of 0.127 mm and a mass of 32 mg ± 1 mg. The NIST-762 lot was produced from rolled nickel sheet with a purity of 99.999 %. Discs were punched from the sheet. Before measurement, the discs were ultrasonically cleaned in acetone, then methyl alcohol. The certified value for specific magnetization, s at 298 K and in an applied magnetic field of 398 kA/m (5000 oersted, Oe) with the magnetic field aligned parallel to the plane of the disc is: /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Specific magnetization		$s = 54.78 \text{ A m}^2/\text{kg} \pm 0.15$			
			$\text{A m}^2/\text{kg} (54.78 \text{ emu/g} \pm 0.15 \text{ emu/g})$			