

Certificate of analysis

Nickel nanopowder, APS 5-20nm, 99.9% (metals basis)

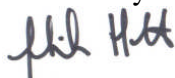
Stock Number: 45505

Lot Number: B04X012

Analysis

BET surface area (mean)	57.6 m ² /g
	0.36 deviation
TGA weight-gain factor	1.1288
Oxide fraction	0.527 [NiO]
Average particle diameter (estimated from surface area)	11.7 nm
Diameter metal/metal oxide particle (estimated)	13.0 nm
Shell thickness (estimated)	1.3 nm

Certified by:



Quality Control

This document has been electronically generated and does not require a signature.