

Certificate of analysis

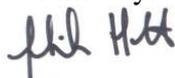
Nickel nanopowder, APS 5-20nm, 99.9% (metals basis)

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:



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