



## Certificate of Analysis

### Graphitized multi-walled carbon nanotube, –OH functionalized

Content of MWNTs (metal basis, excluding –OH): 99.9%

Content of –OH: 0.34-0.38%

Outside diameter: 30-80 nm

Inside diameter: 5-15 nm

Length: < 10  $\mu\text{m}$

Stock#: 1240YJF

Elements	Content (ppm)	Elements	Content (ppm)
Al	10.4	K	6.4
Ba	1.34	Mg	26.9
Ca	141.2	Mn	3.01
Cr	7.33	Na	6.62
Cu	1.09	Ni	3.12
Fe	64.8	Si	50

Analysis Methods: inductively coupled plasma (ICP)

X-ray photoelectron spectroscopy (XPS)

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