



CCNI Carbon Nanotubes XBC High Conductivity Grade

Product Description

Fullerene nanotubesⁱ are high aspect ratio polymers of pure carbon in which the atoms are bonded together in cylindrical form. XBC grade is designed for high conductivity applications.

MSDS: CCNI Carbon Nanotubes

Representative Performanceⁱ



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Representative Properties	
Color	Black
Morphology	Nanotubes bundled in ropes
Solids Content ⁱⁱ (wet form)	2-5 wt%
TGA Ash	< 5 wt%
Raman G/D ratio ⁱⁱⁱ	> 20

Representative TGA Curve (Dried Form)





ⁱ CCNI XBC grade carbon nanotubes are tubular fullerenes; polymers that are part of the fullerene family of carbon molecules discovered by Dr. Richard E. Smalley and colleagues in 1985. Fullerene nanotubes exhibit the degree of perfection associated with all molecules. They comprise single-wall carbon nanotubes (SWNTs), and endohedral or endotopic SWNTs, i.e., one, two or more tubular fullerenes nested inside another tubular fullerene. Van der Waals attractions cause fullerene nanotubes to self-assemble into networks of ropes or bundles.

Materials are provided in wet form to assist dispersion of carbon nanotubes for potential applications in aqueous system. Dried form is available upon request.

ⁱⁱⁱ Intensity ratio of G-band to D-band in Raman spectrum.