

Marktek Inc.

The One-Stop Shop for EMI-Shielding, Conductive, Resistive, & Microwave-Absorptive Materials

Nickel CVD Coated Carbon Fibers (Ni/C Fibers)

The ultimate combination of lightweight, strength, and conductivity properties:

- Every filament in each tow bundle is uniformly coated with pure, ductile, smooth nickel.
- Wide range of coating levels and fiber types, including aramid.
- Short-fiber formats have excellent conductivity properties as an additive.



Parameter	Value	Value	Value	Value	Units
Product ID	NC12K20	NC12K30	NC12K40	NC12K55	(NC12K55 only by special Order)
Tow Count	12K	12K	12K	12K	
Coating Purity, minimum	99% Ni	99% Ni	99% Ni	99% Ni	percent
Percent Nickel, typical	22	32	42	55	% by weight
Density, typical	2.15	2.38	2.67	3.17	grams /cc
Linear Yield, typical	1450	1250	1075	839	feet / pound
Avg. Electrical Resistance along tow, typical	4.1	2.6	1.6	1.42	ohm / meter
Ultimate Strength minimum value	400	400	400	400	ksi
Modulus minimum value	30	30	30	30	Msi
Elongation minimum value	1.2	1.2	1.2	1.2	percent
Sizing	Upon request (standard production is unsized)				
Packaging	3-7 lb/spool 6 spools per box	3-8 lb/spool 6 spools per box	3-9 lb/spool 6 spools per box	3-10 lb/spool 6 spools per box	

The listed values are merely representative and not to be considered as specs. Marktek Inc. does not assume any liability whatsoever for accuracy or completeness of any information contained in this document. These products are not warranted with respect to merchantability or suitability for use, including any intellectual property or trade restrictions, which is the sole responsibility of the purchaser and/or end user. Always refer to materials handling instructions and safety documentation when using this or any other material. Rev. 0620

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