

Marktek Inc.

Your One-Stop Shop for Conductive, Resistive, & Microwave-Absorptive Materials

Data Sheet for the NC100010xxC Series of CVD Nickel/Carbon Nonwovens

Description: Wet-laid nonwovens consisting of 7-um diameter carbon fiber staple (1/4" & 1/2") bound with 1-20 wt.% (usually 10%) of polyvinyl alcohol binder and then uniformly coated with chemical vapor deposited (CVD) nickel. Available as continuous rolls, in widths up to 60".

Part Number	Basis Wt.		Thickness		Surface Resistivity Range, MD&XD, ohm/sq	EM Shielding in X-band, dB
	oz/yd ²	g/m ²	mils	mm		
NC10001008C	0.24	8	1.8	0.046	0.7 – 1.5	41
NC10001012C	0.36	12	2	0.051	0.3 - .6	49
NC10001018C	0.53	18	2.2	0.056	0.08 - .15	62
NC10001035C	1.04	35	2.5	0.064	0.03 -.07	66
NC10001060C	1.78	60	3.1	0.079	0.012 - .025	67

N.B. All values above are merely representative and indicative, as actual values may vary.

Applications: EMI/RFI shielding; lightning strike protection; reflective backplanes; radar-absorbing materials (RAM, stealth); lightweight, composite antennas replacing aluminum; reflective layers in satellite dishes; fuel cells; resistive heating; conductive tapes; surface veils for electrical grounding, corrosion resistance, and improving surface finish of linings

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