



Neodymium Iron Boron / Magnetic Properties									
Grade	Press <sup>1</sup>	Br (Gauss)	Hc (Oersteds)	Hci (Oersteds)	BHmax (MGOe)	Temperature Coefficients (%/°C)		Maximum Operating Temp @ Pc=2 <sup>(2)</sup>	
		Range	Typical	Minimum	Range	of BR	of Hci	(°C)	(°F)
N5311	D	14,200 ~ 14,700	10,300	11,000	48 ~ 53	-0.11	-0.65	~ 80	~ 170

<sup>1</sup> D: Die-Pressed, I: Isostatically-Pressed

<sup>2</sup> The Maximum Operating Temperature shown here is for magnets operating at a Permeance Coefficient of 2. At the temperatures shown the operating point of the material is above the knee of the BH Curve.

Neodymium Iron Boron / Physical Properties											
Grade	Density		Bending Strength		Compressive Strength		Electrical Resistivity (Ωm)	Coeff. of Thermal Expansion <sup>3</sup>		Curie Temperature	
	(Kg/m <sup>3</sup> )	(lbs/in <sup>3</sup> )	(kg/m <sup>2</sup> )	(lbs/in <sup>2</sup> )	(kg/m <sup>2</sup> )	(lbs/in <sup>2</sup> )		// M	⊥M	(°C)	(°F)
N5311	7.6 x 10 <sup>3</sup>	0.275	2.95 x 10 <sup>3</sup>	4.2 x 10 <sup>4</sup>	9.6 x 10 <sup>3</sup>	1.3 x 10 <sup>5</sup>	1.4 x 10 <sup>-6</sup>	8.9 x 10 <sup>-6</sup>	-1.7 x 10 <sup>-6</sup>	340	640

<sup>3</sup>// M Parallel to magnetic orientation, ⊥M Perpendicular to magnetic orientation.