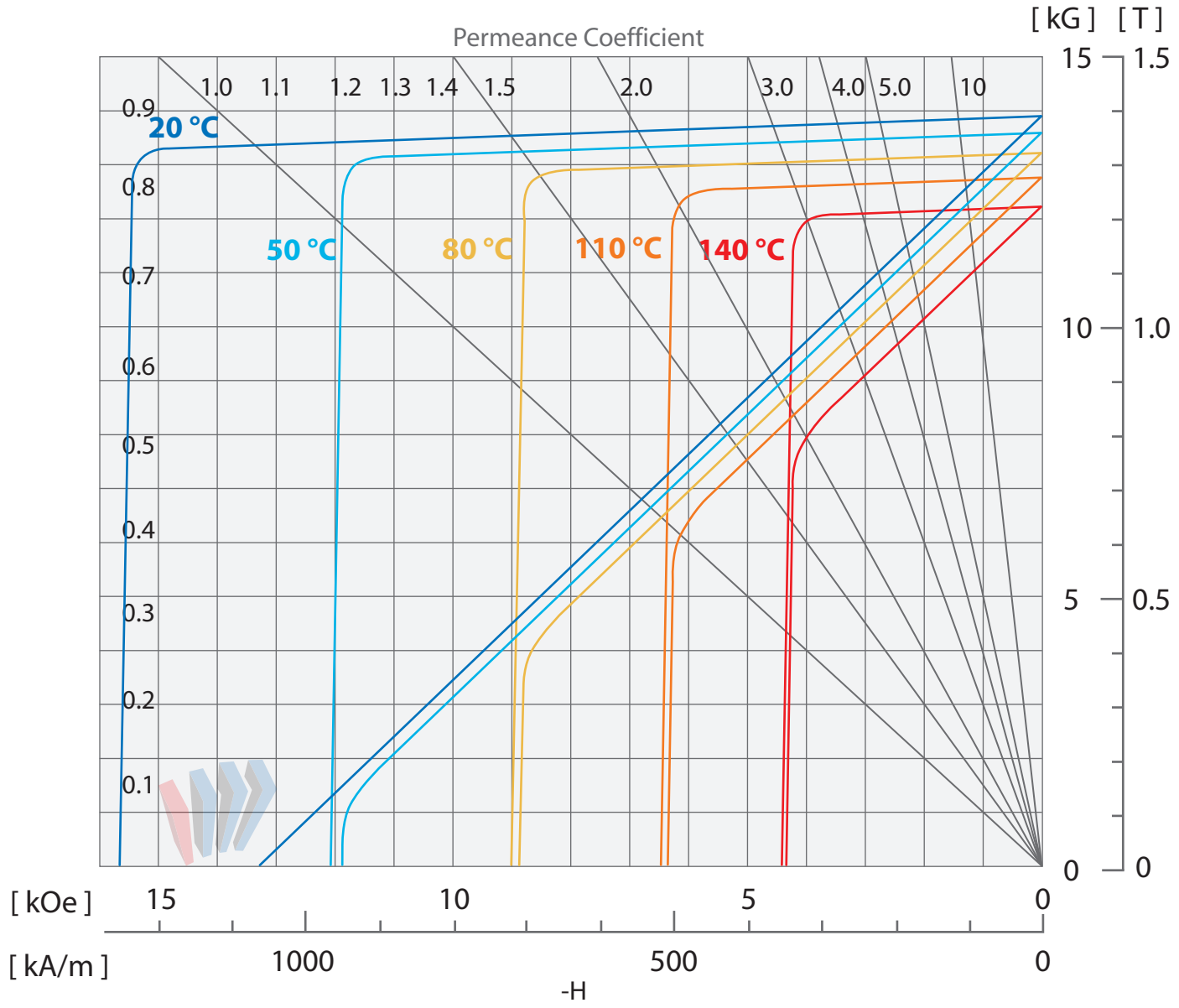
Integrated Magnetics

Technical Data Sheet

Material: Neodymium Iron Boron Magnet — Grade: N4914



Neodymium Iron Boron / Magnetic Properties									
Grade	Press[1]	Br (Gauss)	Hc (Oersteds)	Hci (Oersteds)	BHmax (MGOe)	Temperature Coefficients (%/°C)		Maximum Operating Temp @ Pc=2 [(2)]	
		Range	Typical	Minimum	Range	of BR	of Hci	(°C)	(°F)
N4914	D	13,600 ~ 14,100	12,800	14,000	45 ~ 49	-0.11	-0.61	~ 130	~ 260

[1] D: Die-Pressed, I: Isostatically-Pressed

[2] 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[3]		Curie Temperature	
	(Kg/m³)	(lbs/in³)	(kg/m²)	(lbs/in²)	(kg/m²)	(lbs/in²)		// M	⊥M	(°C)	(°F)
N4914	7.6 x 10^3	0.275	2.95 x 10^3	4.2 x 10^4	9.6 x 10^3	1.3 x 10^5	1.4 x 10^{-6}	8.9 x 10^{-6}	-1.8 x 10^{-6}	340	640

[3] // M Parallel to magnetic orientation, ⊥M Perpendicular to magnetic orientation.