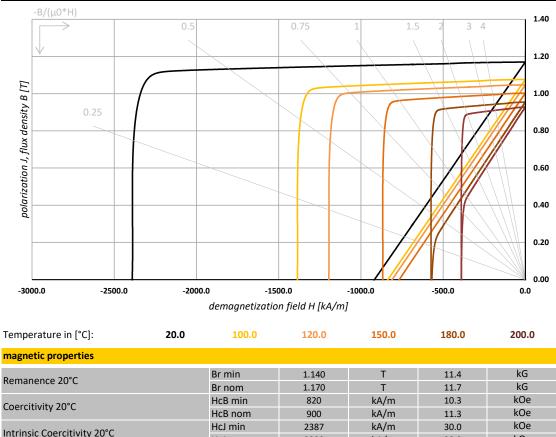


NdFeB sintered, corrosion & temperature stable



magnetic properties					
Remanence 20°C	Br min	1.140	Т	11.4	kG
	Br nom	1.170	T	11.7	kG
Coercitivity 20°C	HcB min	820	kA/m	10.3	kOe
	HcB nom	900	kA/m	11.3	kOe
Intrinsic Coercitivity 20°C	HcJ min	2387	kA/m	30.0	kOe
	HcJ nom	2390	kA/m	30.0	kOe
Maximum Energy Product 20°C	BH max, min	239	kJ/m³	30.0	MG0e
	BH max, nom	263	kJ/m³	33.0	MG0e
Reversible Temperature Coefficient 1)	α Br nom	-0.095 ~ -0.115	%/°C		
	β HcJ nom	-0.45 ~ -0.59	%/°C		
material properties (typical values)					

material properties (typical values)				
Max. Operating Temperature <sup>2)</sup>	T max	200	°C	
Density	ρ	7.55	g/cm <sup>3</sup>	
Permeability 20°C	μr	1.05		
Vickers Hardness		500 - 600	HV	
Modulus of Elasticity	E	150 - 200	kN/mm <sup>2</sup>	
Compressive Strength		1000 - 1100	N/mm <sup>2</sup>	
Flexural Strength		250	N/mm <sup>2</sup>	
Expansion Coefficient		-	10 <sup>-6</sup> /K	
Expansion Coefficient in direction of		-3 - 0	10 <sup>-6</sup> /K	
anisotropy	//	4 - 9	10 <sup>-6</sup> /K	
Specific Electric Resistance	pel	1.2 - 1.6	μΩ˙m	
Specific Heat Capacity	С	440	J/(kg <sup>·</sup> K)	
Thermal Conductivity	λ	8.0 - 10.0	W/m <sup>·</sup> K	

<sup>1)</sup> The shown temperature coefficients are nominal reference values only . They can vary for different temperatures and don't need to be linear.

Note:

The above plotted graphs are idealized and represent theoretical values of the material. Shown are curves according nominal values based on uncoated material samples according to IEC 60404-5. Material and magnetic data represent typical data that may vary due to product shape, size and coating. Please contact Bomatec regarding specific requirements for your application.

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<sup>2)</sup> The maximum operating temperature is depending on the magnet shape, size and on the specific application.