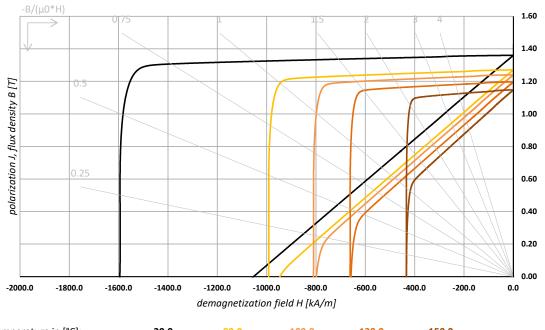


NdFeB sintered, corrosion stable



Temperature in [°C]:	20.0	80.0	100.0	120.0	150.0	
magnetic properties						
Remanence 20°C		Br min	1.320	T	13.2	kG
Nemanence 20 C		Br nom	1.360	Т	13.6	kG
Coercitivity 20°C		HcB min	999	kA/m	12.6	kOe
		HcB nom	1041	kA/m	13.1	kOe
Intrinsic Coercitivity 20°C		HcJ min	1592	kA/m	20.0	kOe
		HcJ nom	1595	kA/m	20.0	kOe
Maximum Energy Product 20°C		BH max, min	334	kJ/m³	42.0	MGOe
		BH max, nom	350	kJ/m³	44.0	MGOe
Reversible Temperature Coefficient 1)		α Br nom	-0.100 ~ -0.120	%/°C		
		β HcJ nom	-0.55 ~ -0.66	%/°C		
material properties (typical value	s)					
Max. Operating Temperature <sup>2)</sup>		T max	150	°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		
<b>Expansion Coefficient in direction</b>	of	<u> </u>	-3 - 0	10 <sup>-6</sup> /K		
anisotropy		//	4 - 9	10 <sup>-6</sup> /K		
Specific Electric Resistance		ρel	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.