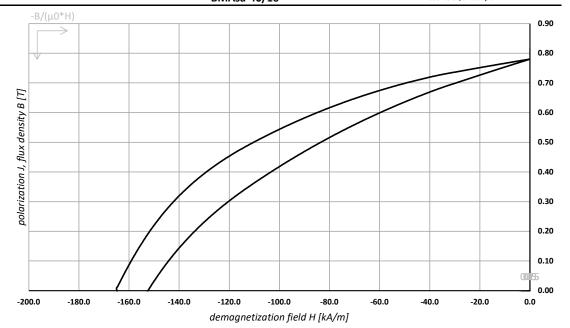




AlNiCo sintered, anisotropic



Temperature in [°C]: 20.0

Remanence 20°C	Br min	0.750	T	7.5	kG
	Br nom	0.780	Т	7.8	kG
Coercitivity 20°C	HcB min	143	kA/m	1.8	kOe
	HcB nom	153	kA/m	1.9	kOe
Intrinsic Coercitivity 20°C	HcJ min	155	kA/m	1.9	kOe
	HcJ nom	165	kA/m	2.1	kOe
Maximum Energy Product 20°C	BH max, min	40	kJ/m³	5.0	MG0e
	BH max, nom		kJ/m³		MGOe
Reversible Temperature Coefficient 1)	α Br nom	-0.010 ~ -0.035	%/°C		
	β HcJ nom	-0.03 ~ 0.03	%/°C		
material properties (typical values)					
Max. Operating Temperature 2)	T max	500	°C		
Density	ρ	7.2	g/cm ³		
Permeability 20°C	μr	3.5			
Vickers Hardness		300 - 400	HV		
Modulus of Elasticity	E	100 - 200	kN/mm ²		
•	E	100 - 200 300 - 400	kN/mm² N/mm²		
Modulus of Elasticity Copressive Strength Flexural Strength	E		N/mm ² N/mm ²		
Copressive Strength	E		N/mm ² N/mm ² 10 ⁻⁶ /K		
Copressive Strength Flexural Strength	E L	300 - 400	N/mm ² N/mm ² 10 ⁻⁶ /K 10 ⁻⁶ /K		
Copressive Strength Flexural Strength Expansion Coefficient		300 - 400	N/mm ² N/mm ² 10 ⁻⁶ /K		
Copressive Strength Flexural Strength Expansion Coefficient Expansion Coefficient in direction of		300 - 400 - 11.0 - 12.0	N/mm ² N/mm ² 10 ⁻⁶ /K 10 ⁻⁶ /K		
Copressive Strength Flexural Strength Expansion Coefficient Expansion Coefficient in direction of anisotropy		300 - 400 - 11.0 - 12.0 -	N/mm ² N/mm ² 10 ⁻⁶ /K 10 ⁻⁶ /K 10 ⁻⁶ /K		

¹⁾ 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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²⁾ The maximum operating temperature is depending on the magnet shape, size and on the specific application.