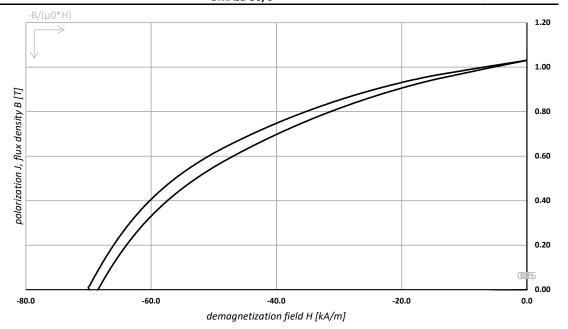




BMAsa-30/6 AlNiCo sintered, anisotropic



Temperature in [°C]: 20.0

Remanence 20°C	Br min	1.000	T	10.0	kG
	Br nom	1.030	Т	10.3	kG
Coercitivity 20°C	HcB min	58	kA/m	0.7	kOe
	HcB nom	68	kA/m	0.9	kOe
Intrinsic Coercitivity 20°C	HcJ min	60	kA/m	0.8	kOe
	HcJ nom	70	kA/m	0.9	kOe
Maximum Energy Product 20°C	BH max, min	30	kJ/m³	3.8	MGOe
	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 <sup>2)</sup>	T max	500	°C		
Density	ρ	7.2	g/cm <sup>3</sup>		
Permeability 20°C	μr	3.5			
Vickers Hardness		300 - 400	HV		
Modulus of Elasticity	E	100 - 200	kN/mm <sup>2</sup>		
Copressive Strength		300 - 400	N/mm <sup>2</sup>		
		_	N/mm <sup>2</sup>		
Flexural Strength			11/111111		
Flexural Strength Expansion Coefficient		11.0 - 12.0	10 <sup>-6</sup> /K		
Expansion Coefficient	<u></u>	11.0 - 12.0			
Expansion Coefficient  Expansion Coefficient in direction of	<u></u>	11.0 - 12.0	10 <sup>-6</sup> /K		
	// // pel	-	10 <sup>-6</sup> /K 10 <sup>-6</sup> /K		
Expansion Coefficient Expansion Coefficient in direction of anisotropy		-	10 <sup>-6</sup> /K 10 <sup>-6</sup> /K 10 <sup>-6</sup> /K		

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

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