BOMATEC
MORE THAN JUST MAGNETS

BMHFa-26/23 (2)   **Ferrite dry pressed, anisotropic**

Temperature in [°C]:	**20.0**	**-40.0**	**100.0**	**150.0**	**200.0**		
magnetic properties							
Remanence 20°C	Br min	0.370	T		3.7	kG	
	Br nom	0.390	T		3.9	kG	
Coercitivity 20°C	HcB min	226	kA/m		2.8	kOe	
	HcB nom	247	kA/m		3.1	kOe	
Intrinsic Coercitivity 20°C	HcJ min	230	kA/m		2.9	kOe	
	HcJ nom	255	kA/m		3.2	kOe	
Maximum Energy Product 20°C	BH max, min	26.4	kJ/m^3		3.3	MGOe	
	BH max, nom	28	kJ/m^3		3.5	MGOe	
Reversible Temperature Coefficient [1]	α Br nom	-0.200	%/°C				
	β HcJ nom	0.300	%/°C				
material properties (typical values)							
Max. Operating Temperature [2]	T max	250	°C				
Density	ρ	4.95	g/cm^3				
Permeability 20°C	μr	1.1					
Vickers Hardness		500-600	HV				
Modulus of Elasticity	E	15 - 200	kN/mm^2				
Copressive Strength		600 - 700	N/mm^2				
Flexural Strength		55	N/mm^2				
Expansion Coefficient		-	10^{-6}/K				
Expansion Coefficient in direction of	⊥	10.0 - 11.0	10^{-6}/K				
anisotropy	//	12.0 - 13.0	10^{-6}/K				
Specific Electric Resistance	ρel	1000000000	μΩ·m				
Specific Heat Capacity	c	700	J/(kg·K)				
Thermal Conductivity	λ	4	W/m·K				

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

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

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.