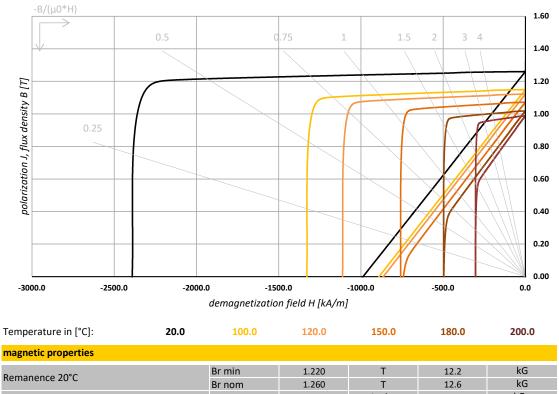




## BMN-38EH/S (GBD)

## NdFeB sintered, corrosion stable



magnetic properties							
Remanence 20°C	Br min	1.220	Т	12.2	kG		
	Br nom	1.260	Т	12.6	kG		
Coercitivity 20°C	HcB min	899	kA/m	11.3	kOe		
	HcB nom	969	kA/m	12.2	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	279	kJ/m³	35.1	MGOe		
	BH max, nom	303	kJ/m³	38.1	MG0e		
Reversible Temperature Coefficient 1)	α Br nom	-0.100 ~ -0.120	%/°C				
	β HcJ nom	-0.47 ~ -0.62	%/°C				
material properties (typical values)							

material properties (typical railes)				
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	1	-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.