

Sintered Rare Earth Magnets NdFeB

	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max Working temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
Grade	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N 35	1170	1220	871	925	955	263	279	-0.12	-0.78			80
N 38	1220	1260	900	925	955	279	303	-0.12	-0.78			80
N 40	1260	1300	908	925	955	303	318	-0.12	-0.78			80
N 42	1300	1330	908	925	955	318	334	-0.12	-0.78			80
N 45	1330	1370	908	925	955	334	358	-0.12	-0.78			80
N 48	1370	1410	908	925	955	358	382	-0.12	-0.78			80
N 50	1410	1440	830	860	875	382	398	-0.12	-0.78			70
N 52	1430	1460	830	860	875	398	414	-0.12	-0.78			70
N 33 M	1140	1170	848	887	1114	239	263	-0.12	-0.72			100
N 35 M	1170	1220	871	925	1114	263	279	-0.12	-0.72			100
N 38 M	1220	1260	908	955	1114	279	303	-0.12	-0.72			100
N 40 M	1260	1300	938	986	1114	303	318	-0.12	-0.72			100
N 42 M	1300	1330	967	1008	1114	318	334	-0.12	-0.72			100
N 45 M	1330	1370	990	1039	1114	334	358	-0.12	-0.72			100
N 48 M	1370	1410	1019	1069	1114	358	382	-0.12	-0.72			100
N 50 M	1410	1440	1019	1069	1080	382	398	-0.12	-0.72			90
N 52 M	1430	1460	1019	1069	1080	398	414	-0.12	-0.72			90
N 30 H	1080	1120	807	853	1353	223	239	-0.12	-0.66	-0.12	-0.60	120
N 33 H	1140	1170	852	891	1353	239	263	-0.12	-0.66	-0.12	-0.60	120
N 35 H	1170	1220	875	930	1353	263	279	-0.12	-0.66	-0.12	-0.60	120
N 38 H	1220	1260	912	960	1353	279	303	-0.12	-0.66	-0.12	-0.60	120
N 40 H	1260	1300	942	990	1353	303	318	-0.12	-0.66	-0.12	-0.60	120
N 42 H	1300	1330	972	1013	1353	318	334	-0.12	-0.66	-0.12	-0.60	120
N 44 H	1330	1360	994	1036	1353	334	350	-0.12	-0.66	-0.12	-0.60	120
N 46 H	1360	1380	1017	1051	1353	350	366	-0.12	-0.66	-0.12	-0.60	120
N 48 H	1370	1410	1024	1074	1353	366	382	-0.12	-0.66	-0.12	-0.60	120
N 50 H	1410	1440	1054	1097	1353	382	398	-0.12	-0.66	-0.12	-0.60	120
N 30 SH	1080	1120	811	857	1592	223	239	-0.115	-0.62	-0.12	-0.56	150
N 33 SH	1140	1170	856	896	1592	239	263	-0.115	-0.62	-0.12	-0.56	150
N 35 SH	1170	1220	879	934	1592	263	279	-0.115	-0.62	-0.12	-0.56	150
N 38 SH	1220	1260	916	965	1592	279	303	-0.115	-0.62	-0.12	-0.56	150
N 40 SH	1260	1300	946	995	1592	303	318	-0.115	-0.62	-0.12	-0.56	150
N 42 SH	1300	1330	976	1018	1592	318	334	-0.115	-0.62	-0.12	-0.56	150
N 44 SH	1330	1360	999	1041	1592	334	350	-0.115	-0.62	-0.12	-0.56	150
N 46 SH	1360	1380	1022	1056	1592	350	366	-0.115	-0.62	-0.12	-0.56	150
N 28 UH	1040	1080	785	831	1989	199	223	-0.110	-0.58	-0.115	-0.52	180
N 30 UH	1080	1120	815	862	1989	223	239	-0.110	-0.58	-0.115	-0.52	180
N 33 UH	1140	1170	860	900	1989	239	263	-0.110	-0.58	-0.115	-0.52	180
N 35 UH	1170	1220	883	938	1989	263	279	-0.110	-0.58	-0.115	-0.52	180
N 38 UH	1220	1260	921	969	1989	279	303	-0.110	-0.58	-0.115	-0.52	180
N 40 UH	1260	1300	951	1000	1989	303	318	-0.110	-0.58	-0.115	-0.52	180
N 42 UH	1300	1330	981	1023	1989	318	334	-0.110	-0.58	-0.115	-0.52	180
N 28 EH	1040	1080	785	831	2387	199	223	-0.105	-0.54	-0.110	-0.48	200
N 30 EH	1080	1120	815	862	2387	223	239	-0.105	-0.54	-0.110	-0.48	200
N 33 EH	1140	1170	860	900	2387	239	263	-0.105	-0.54	-0.110	-0.48	200
N 35 EH	1170	1220	883	938	2387	263	279	-0.105	-0.54	-0.110	-0.48	200
N 38 EH	1220	1260	921	969	2387	279	303	-0.105	-0.54	-0.110	-0.48	200
N 28 AH	1040	1080	785	831	2787	199	223	-0.105	-0.50	-0.110	-0.45	220
N 30 AH	1080	1120	815	862	2787	223	239	-0.105	-0.50	-0.110	-0.45	220
N 33 AH	1140	1170	860	900	2787	239	263	-0.105	-0.50	-0.110	-0.45	220
N 25 BH	980	1020	740	785	3000	183	199	-0.105	-0.50	-0.110	-0.45	240

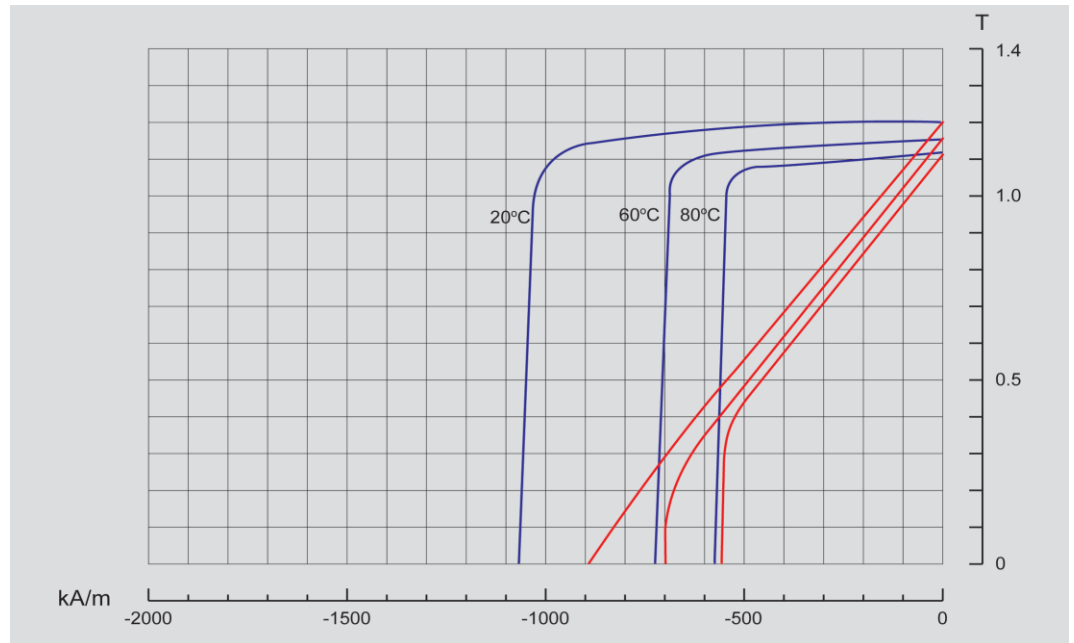
Remark: 1. Max working temperature is only for reference as it is depended on dimension & shape

2, Customers are recommended to consult us involving temperature near to max working temperature.

3, When B/μ·H=1, the magnet is operated at mentioned max. working temperature, the irreversible losses less than 5% is guaranteed

Sintered Rare Earth Magnets NdFeB

N35



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	Min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N 35	1170	1220	871	925	955	263	279	-0.12	-0.78			80

Max Working temperature is only for reference as it is depended on the dimensions and shape.

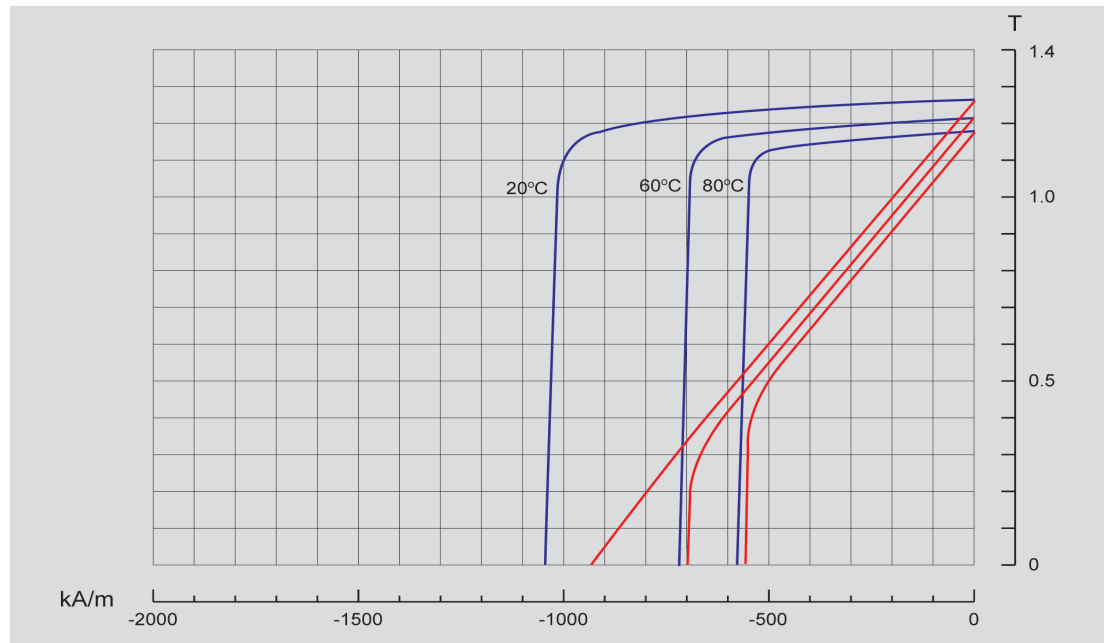
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N38



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N 38	1220	1260	900	925	955	279	303	-0.12	-0.78			80

Max Working temperature is only for reference as it is depended on the dimensions and shape.

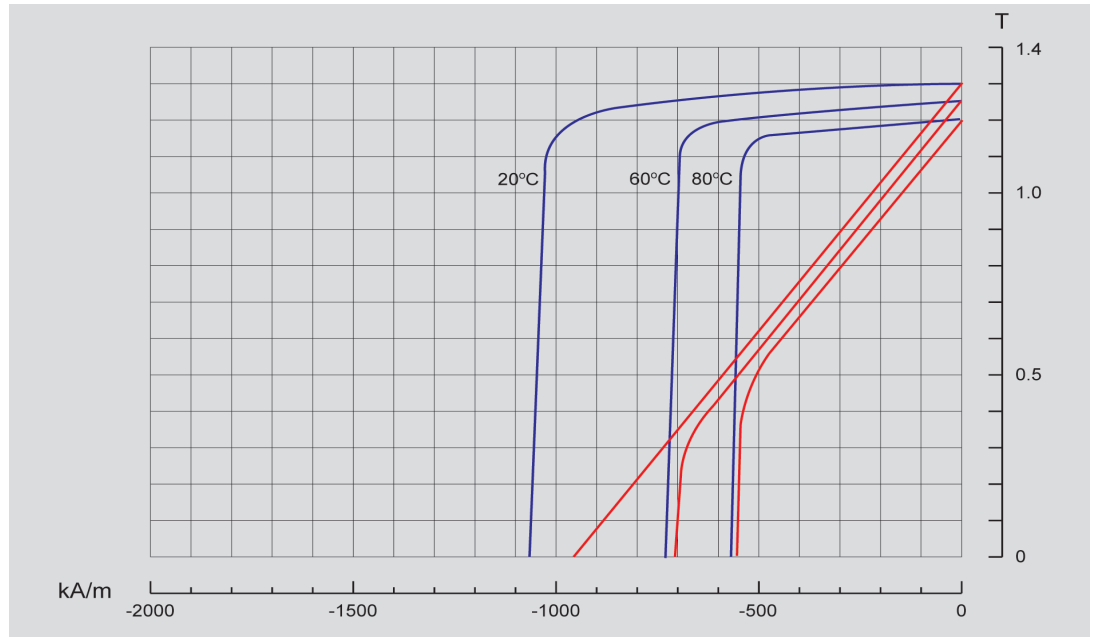
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N40



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N 40	1260	1300	908	925	955	303	318	-0.12	-0.78			80

Max Working temperature is only for reference as it is depended on the dimensions and shape.

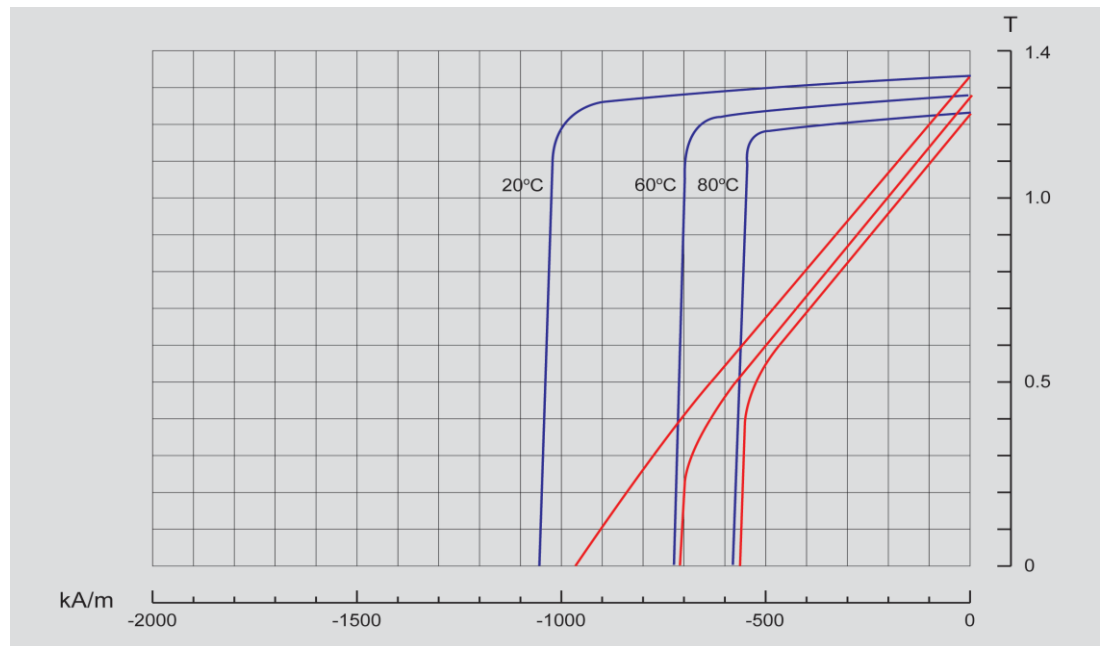
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N42



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N 42	1300	1330	908	925	955	318	334	-0.12	-0.78			80

Max Working temperature is only for reference as it is depended on the dimensions and shape.

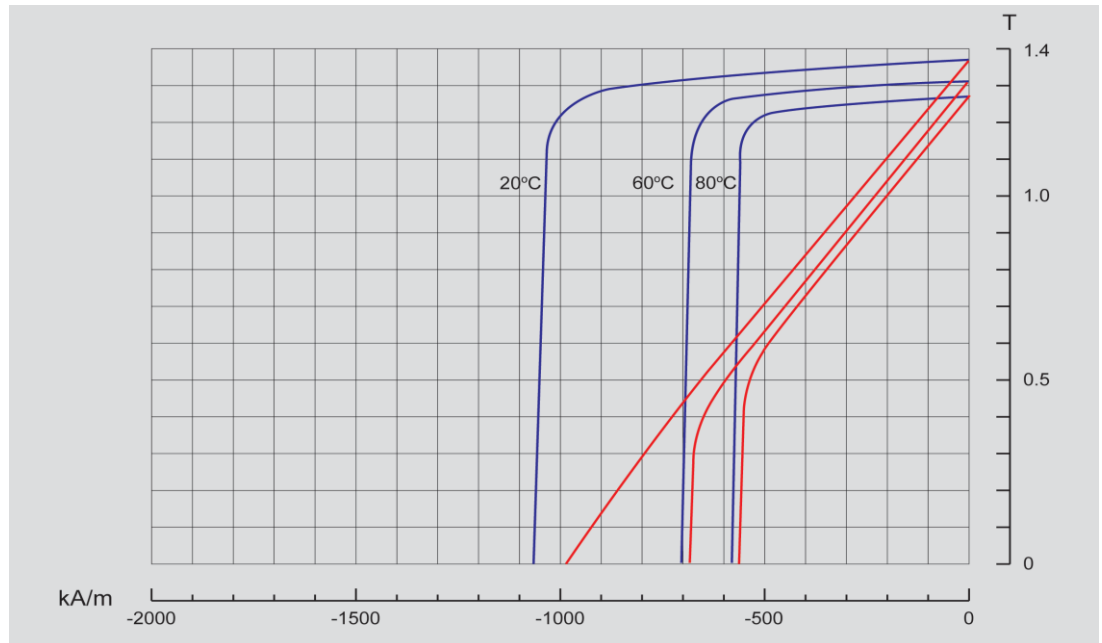
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg· K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N45



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N 45	1330	1370	908	925	955	334	358	-0.12	-0.78			80

Max Working temperature is only for reference as it is depended on the dimensions and shape.

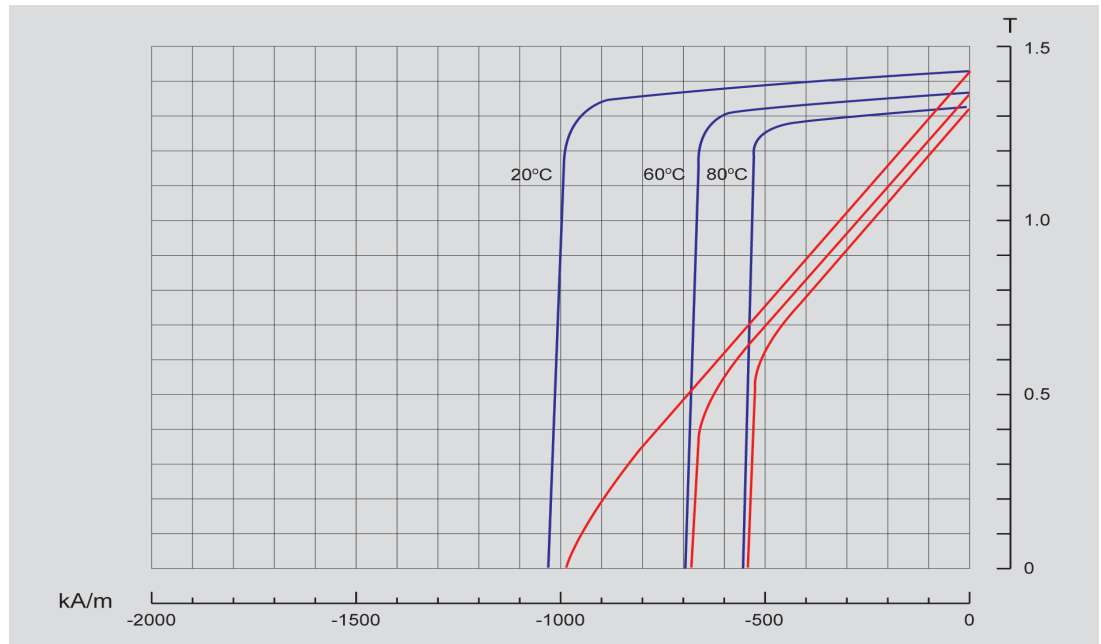
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N48



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N 48	1370	1140	908	925	955	358	382	-0.12	-0.78			80

Max Working temperature is only for reference as it is depended on the dimensions and shape.

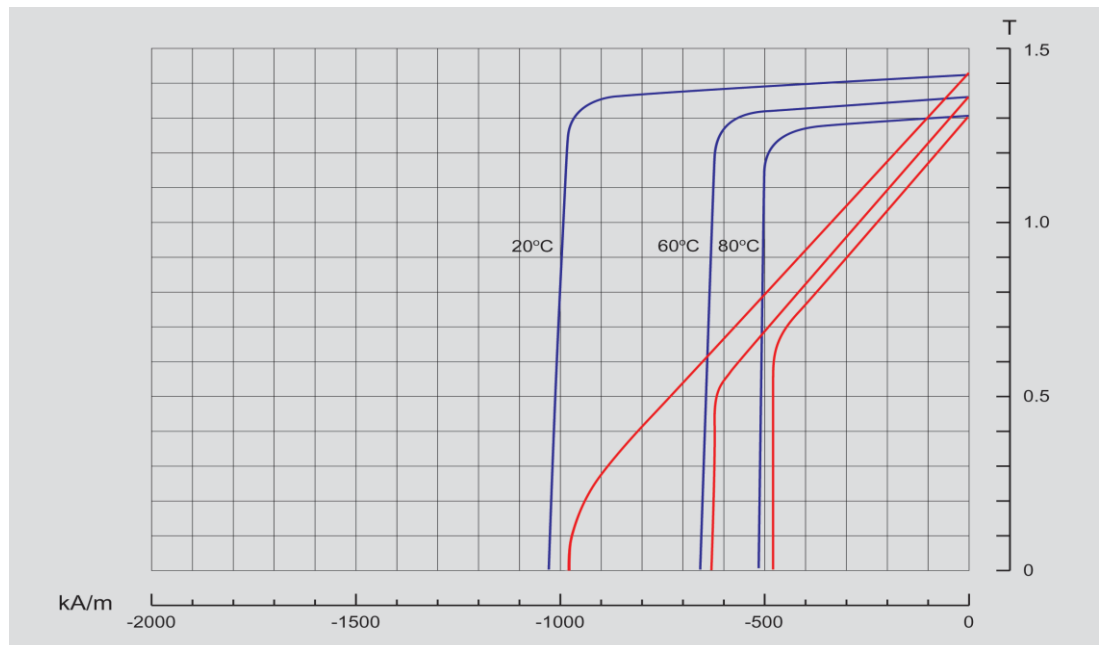
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N50



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N50	1410	1440	830	860	860	382	398	-0.12	-0.78			70

Max Working temperature is only for reference as it is depended on the dimensions and shape.

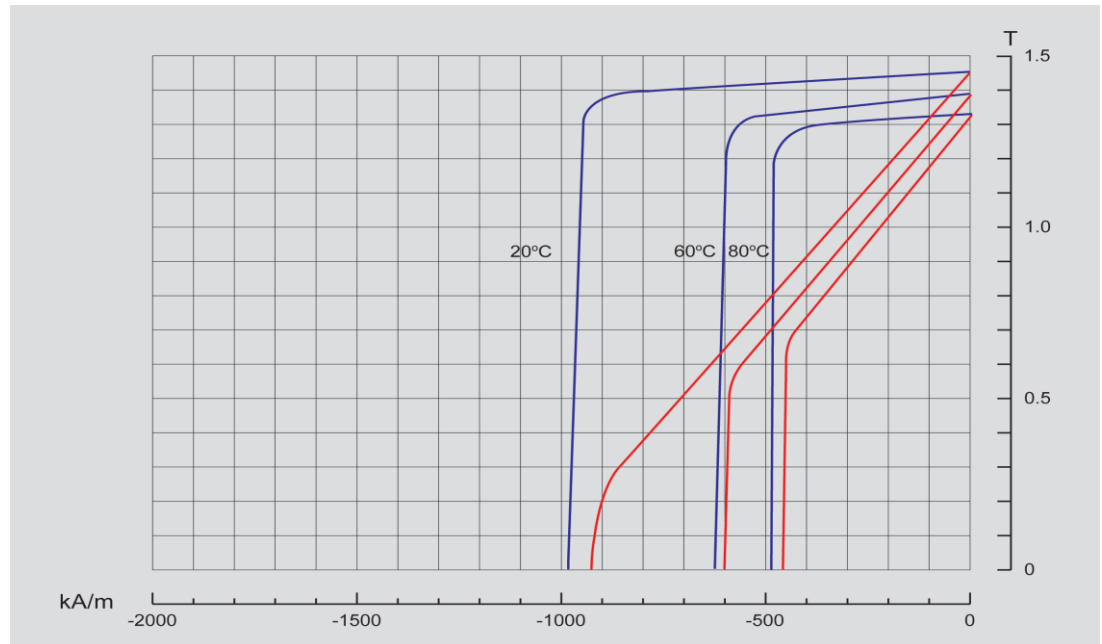
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N52



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N52	1430	1460	830	860	860	398	414	-0.12	-0.78			70

Max Working temperature is only for reference as it is depended on the dimensions and shape.

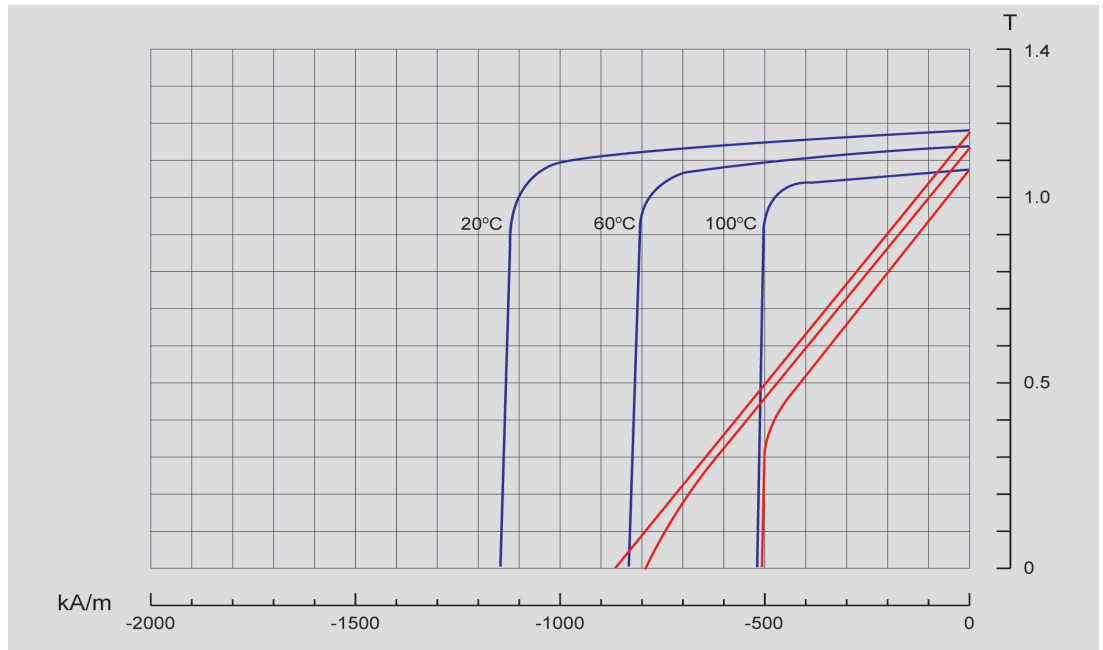
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N33M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N33M	1140	1170	848	887	1114	239	263	-0.12	-0.72			100

Max Working temperature is only for reference as it is depended on the dimensions and shape.

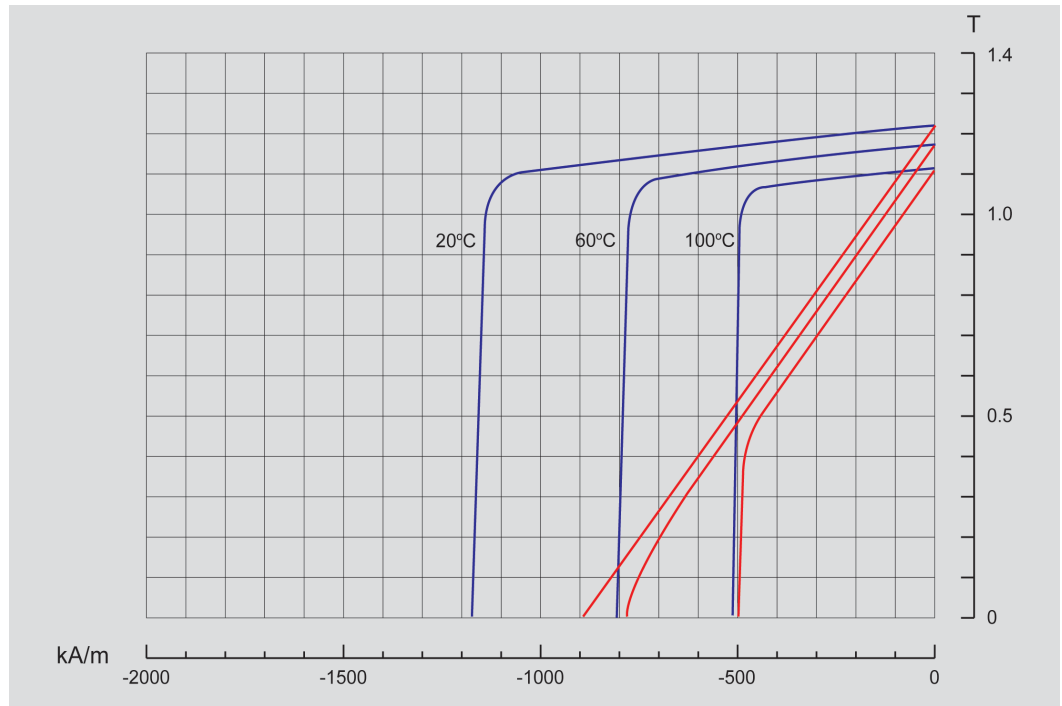
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N35M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N35M	1170	1220	871	925	1114	263	279	-0.12	-0.72			100

Max Working temperature is only for reference as it is depended on the dimensions and shape.

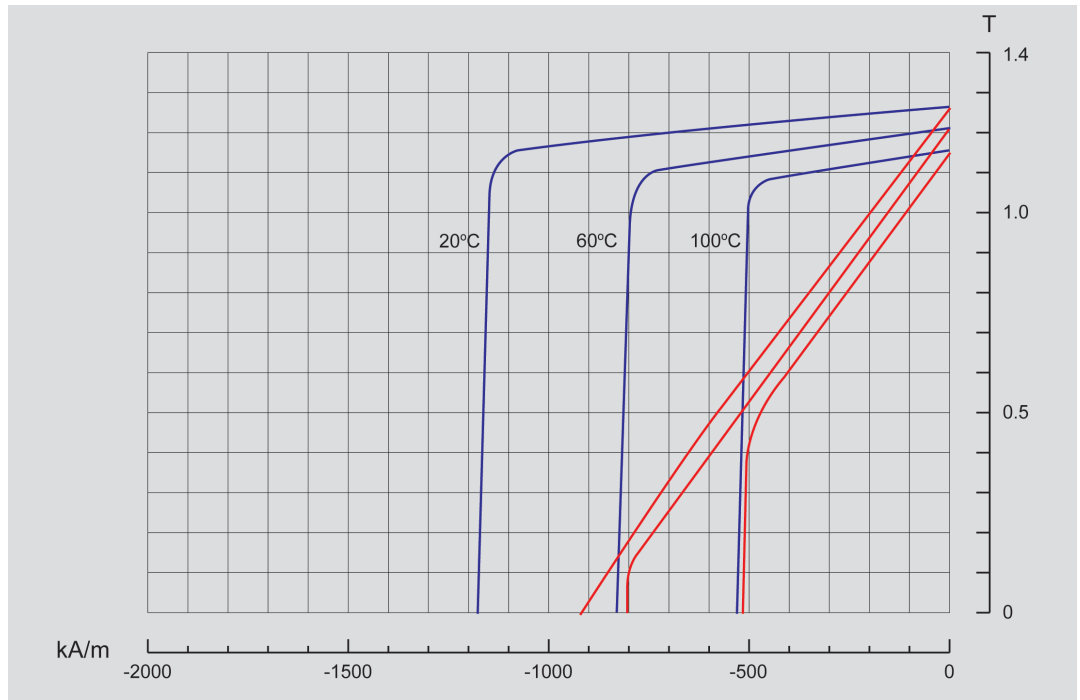
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N38M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N38M	1220	1260	908	955	1114	279	303	-0.12	-0.72			100

Max Working temperature is only for reference as it is depended on the dimensions and shape.

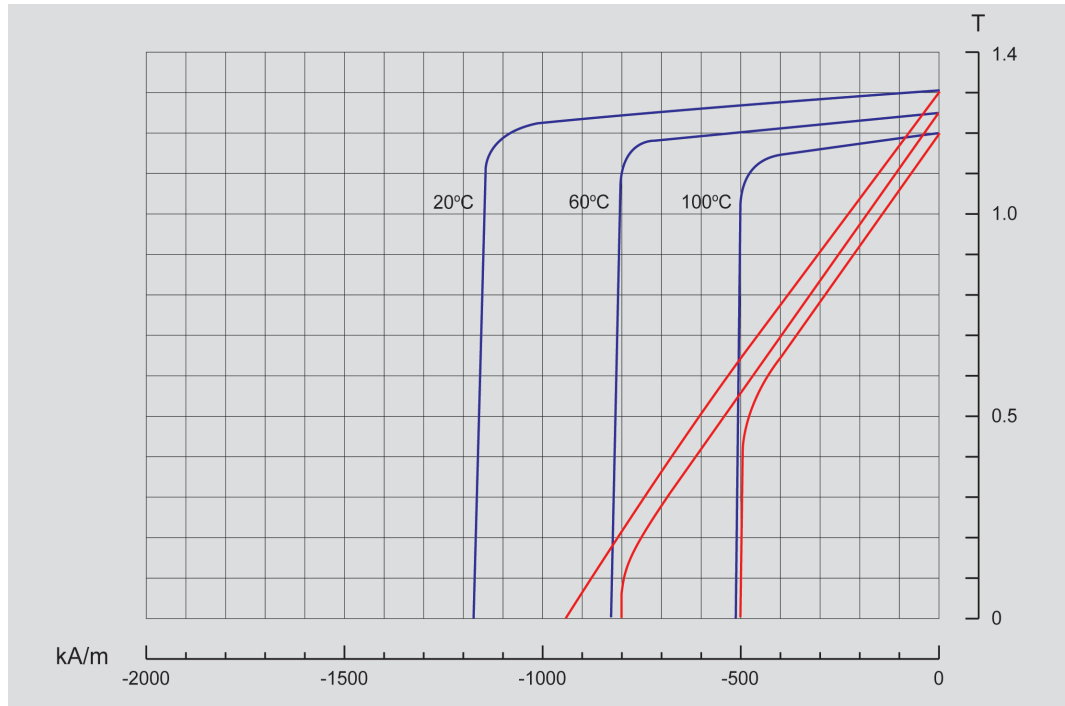
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N40M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N40M	1260	1300	938	986	1114	303	318	-0.12	-0.72			100

Max Working temperature is only for reference as it is depended on the dimensions and shape.

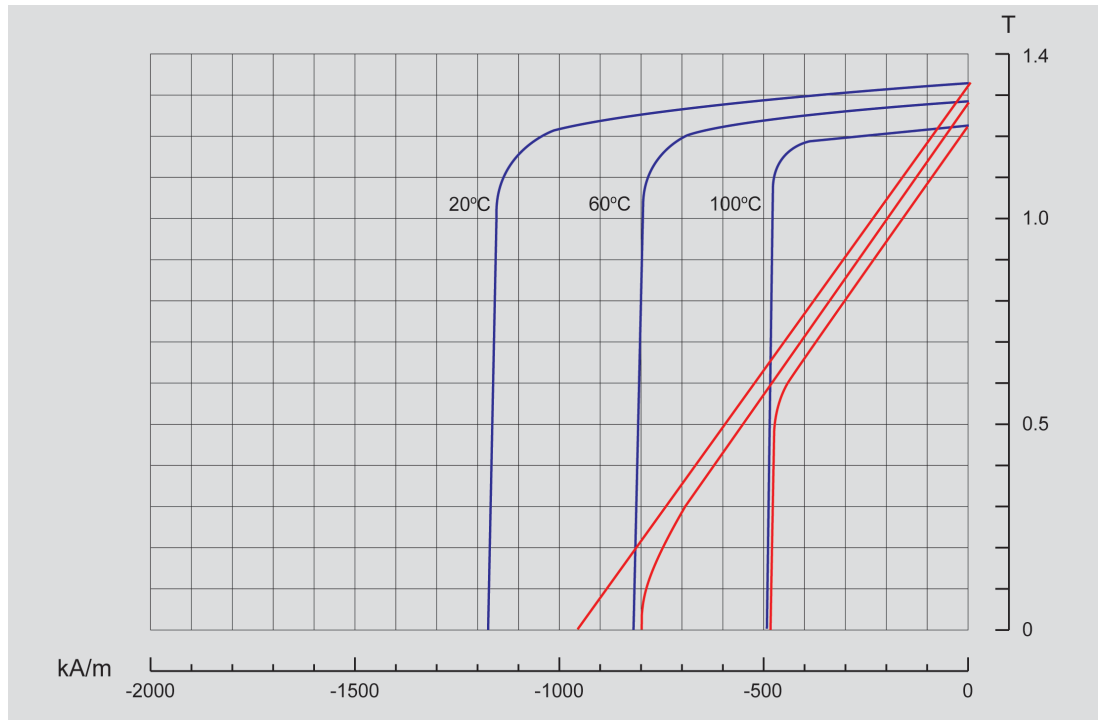
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N42M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N42M	1300	1330	967	1008	1114	318	334	-0.12	-0.72			100

Max Working temperature is only for reference as it is depended on the dimensions and shape.

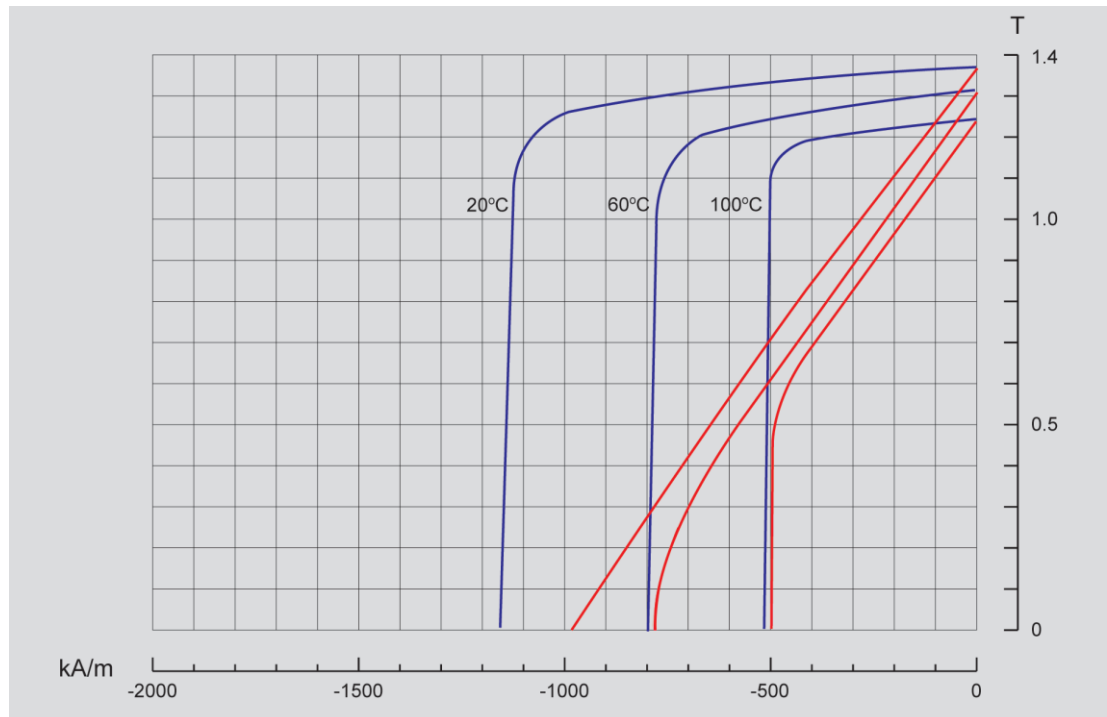
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N45M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N45M	1330	1370	990	1039	1114	334	358	-0.12	-0.72			100

Max Working temperature is only for reference as it is depended on the dimensions and shape.

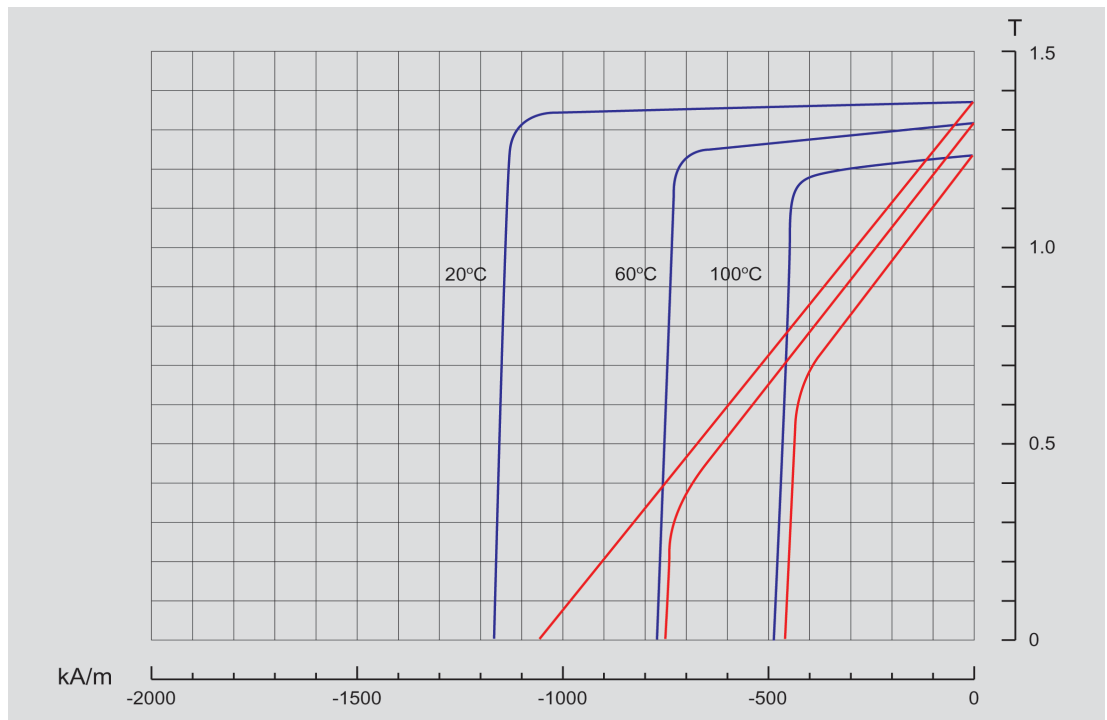
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N48M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N48M	1370	1410	1019	1069	1114	358	382	-0.12	-0.72			100

Max Working temperature is only for reference as it is depended on the dimensions and shape.

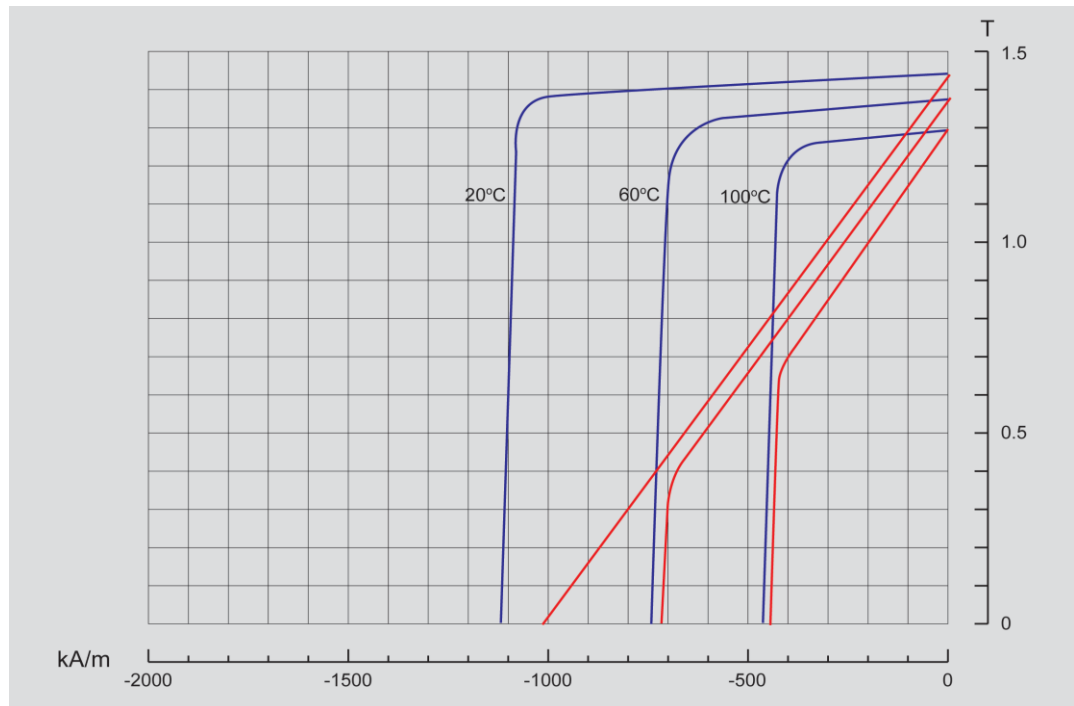
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N50M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N50M	1410	1440	1019	1069	1080	382	398	-0.12	-0.72			90

Max Working temperature is only for reference as it is depended on the dimensions and shape.

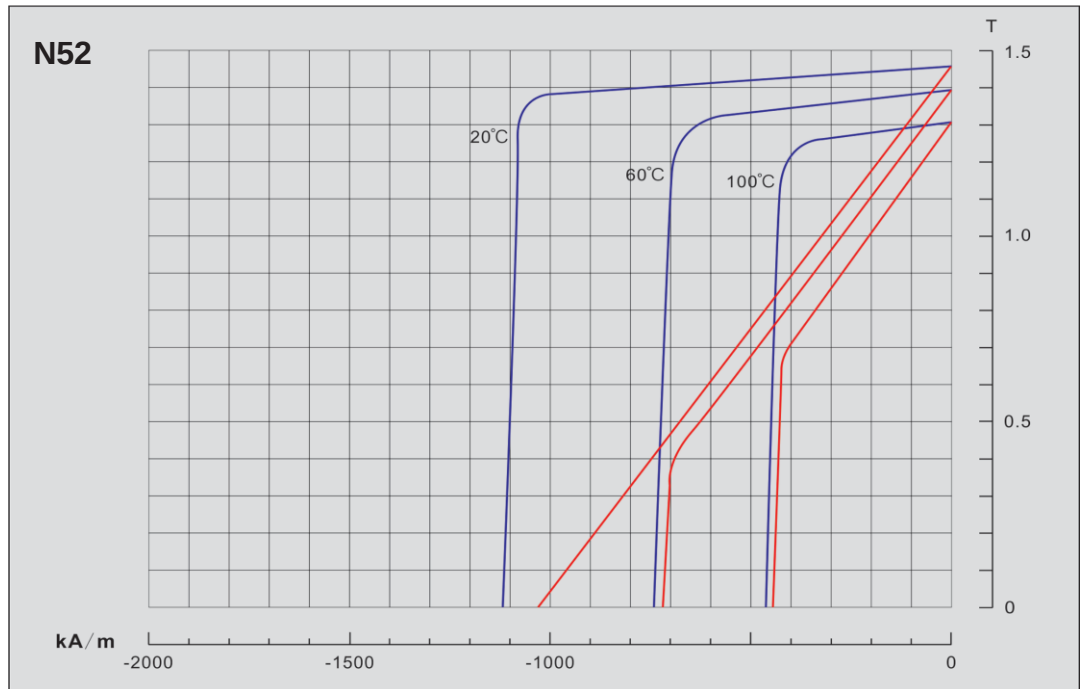
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N52M



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N52M	1430	1460	1019	1069	1080	398	414	-0.12	-0.72			90

Max Working temperature is only for reference as it is depended on the dimensions and shape.

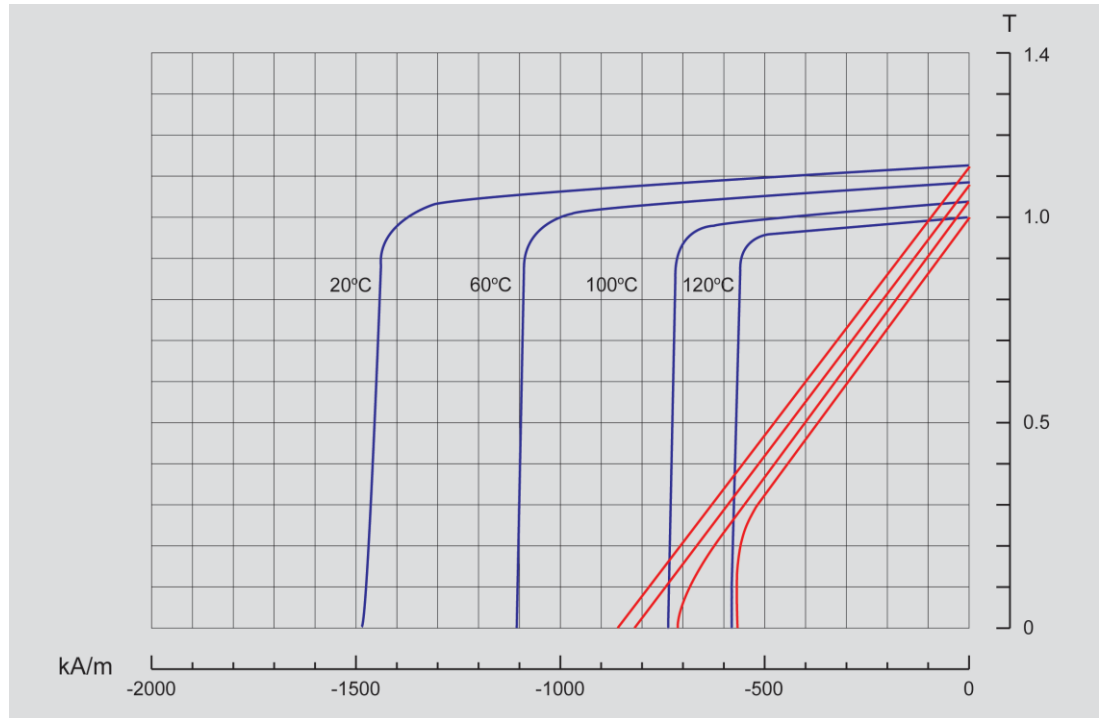
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N30H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% /C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N30H	1080	1120	807	853	1353	223	239	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

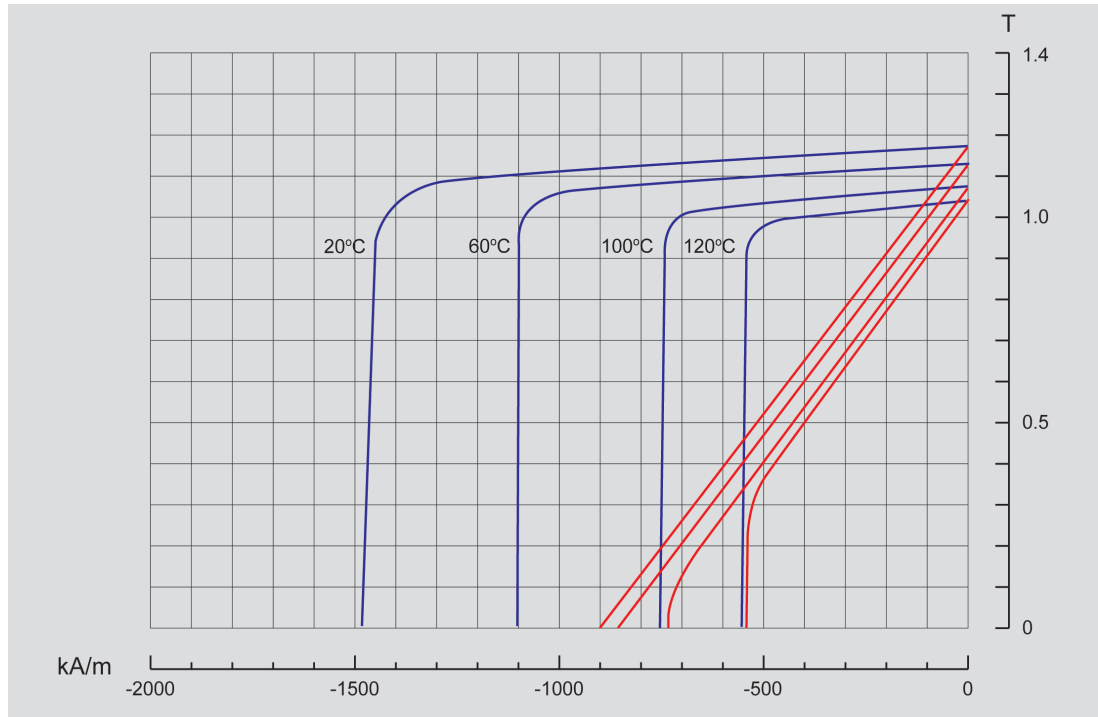
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N33H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N33H	1140	1170	852	891	1353	239	263	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

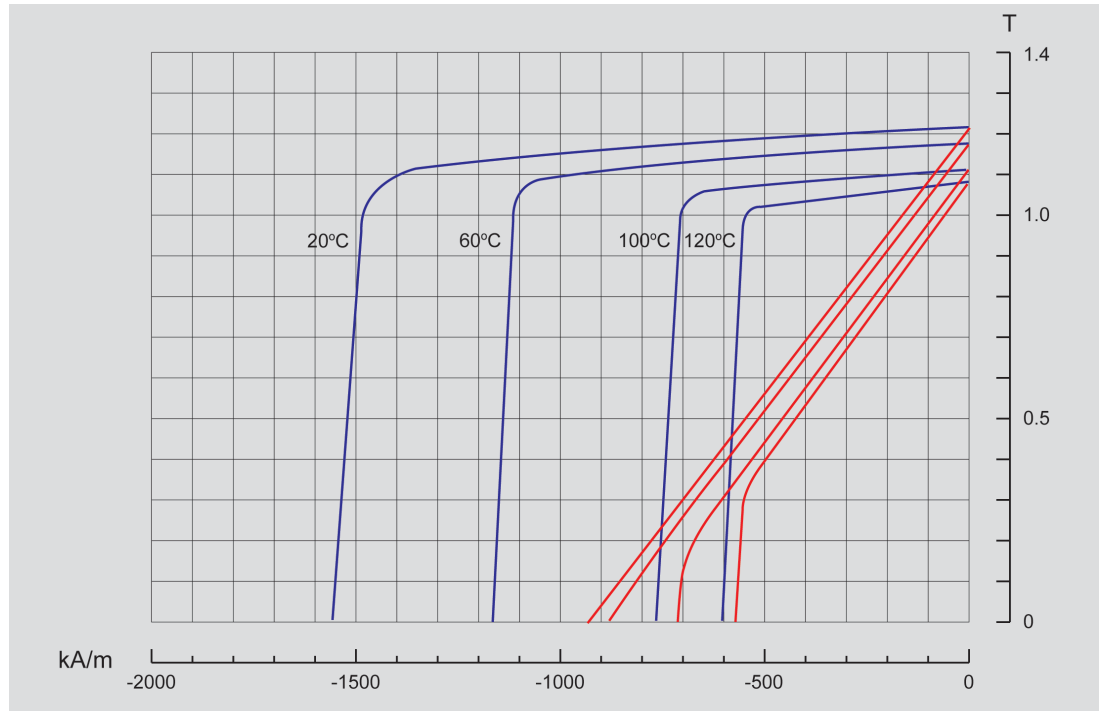
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N35H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N35H	1170	1220	875	930	1353	263	279	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

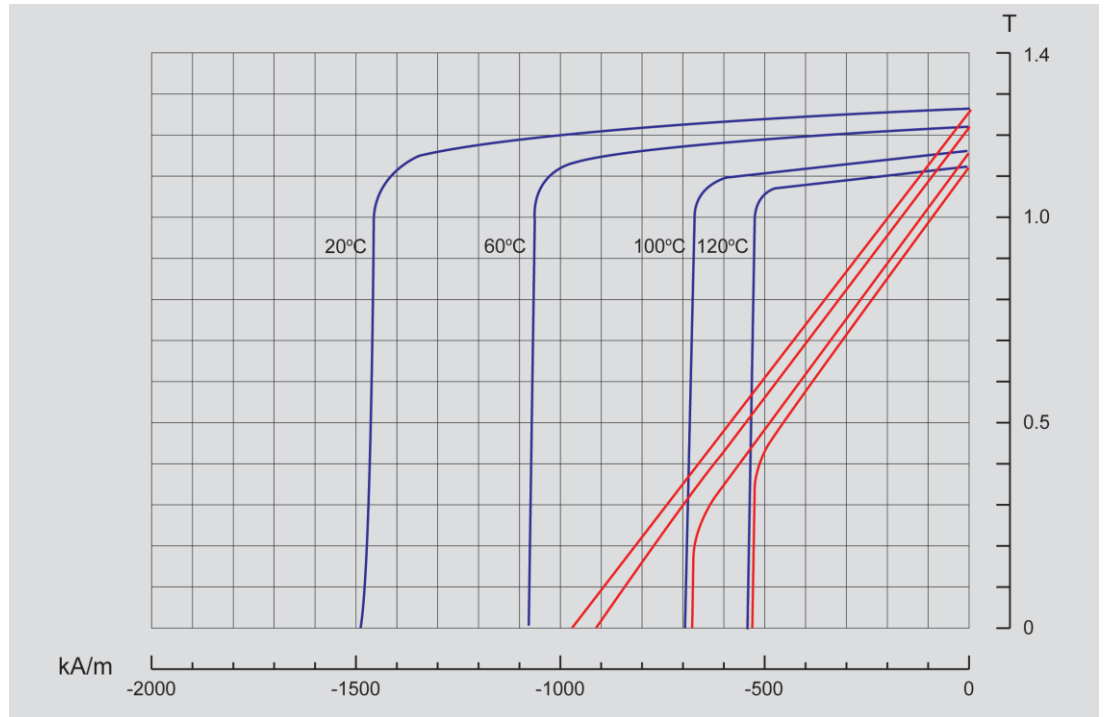
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N38H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N38H	1220	1260	912	960	1353	279	303	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

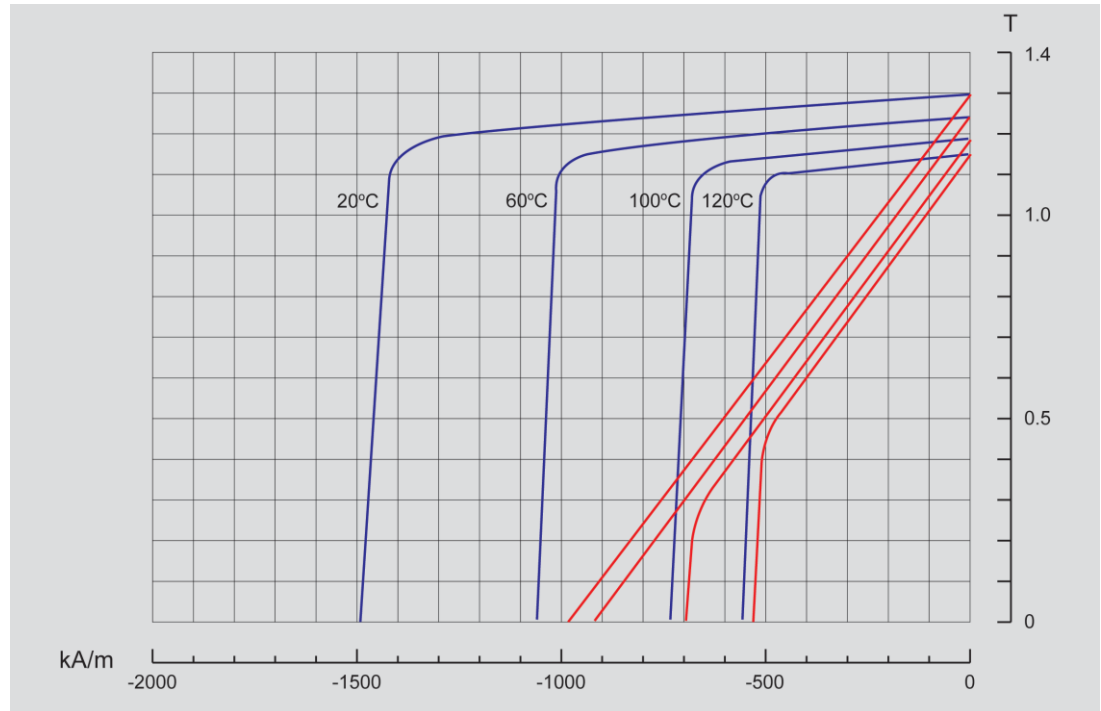
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N40H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N40H	1260	1300	942	990	1353	303	318	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

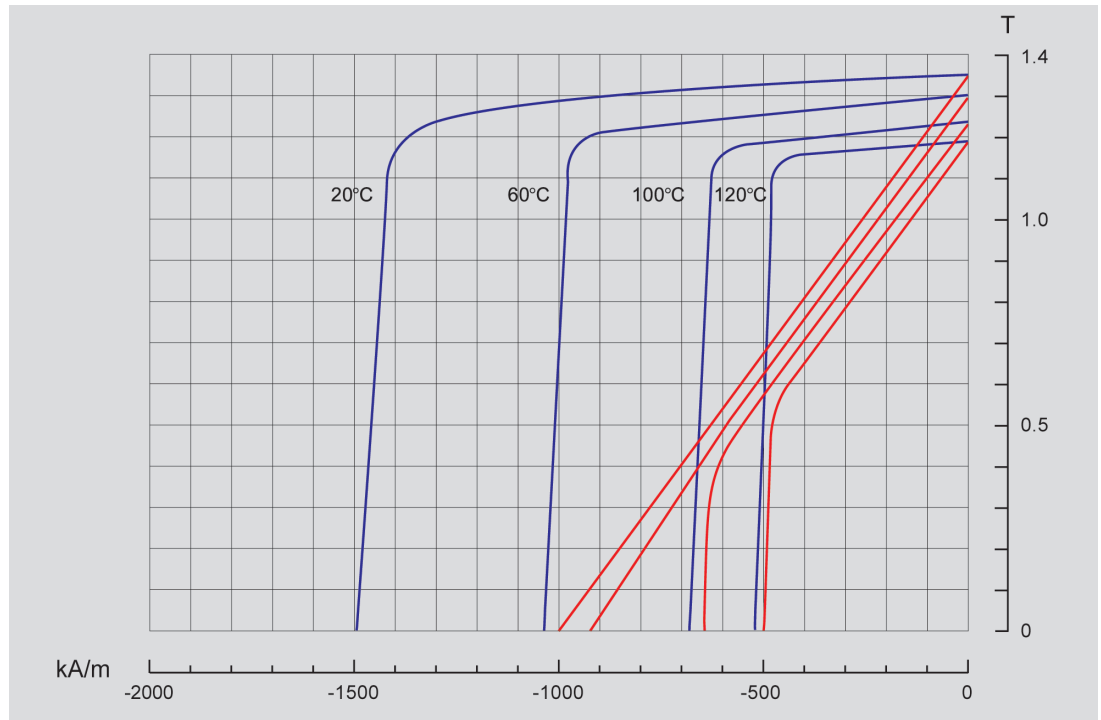
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N42H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N42H	1300	1330	972	1013	1353	318	334	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

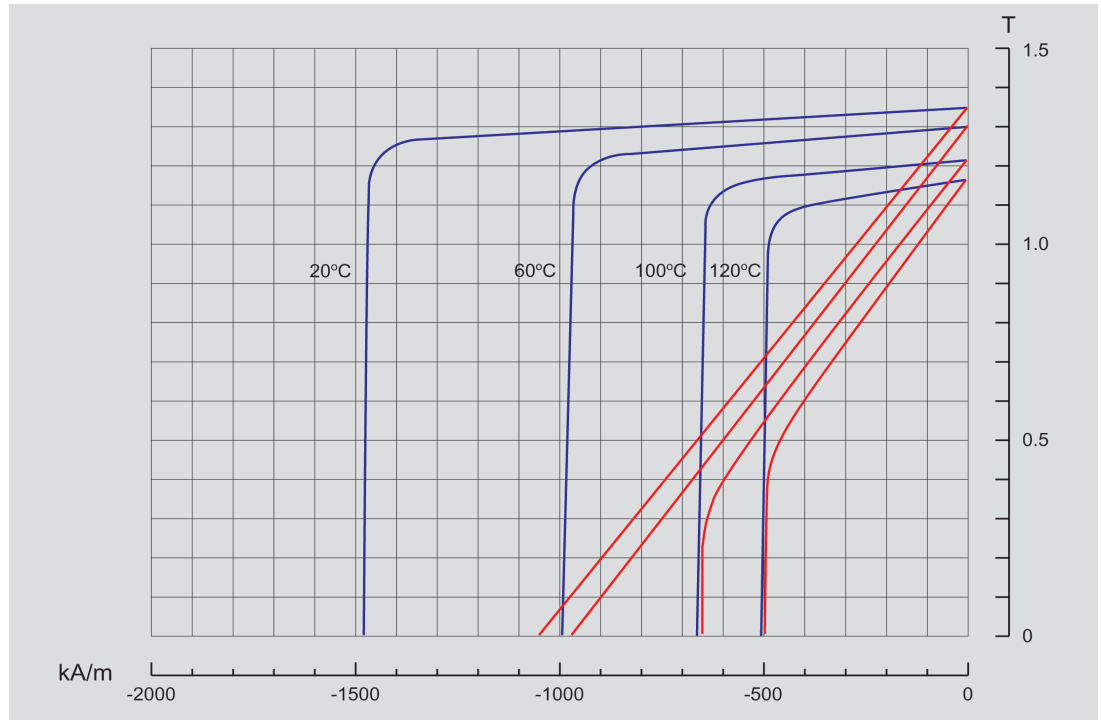
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg · K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N44H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N44H	1330	1360	994	1036	1353	334	350	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

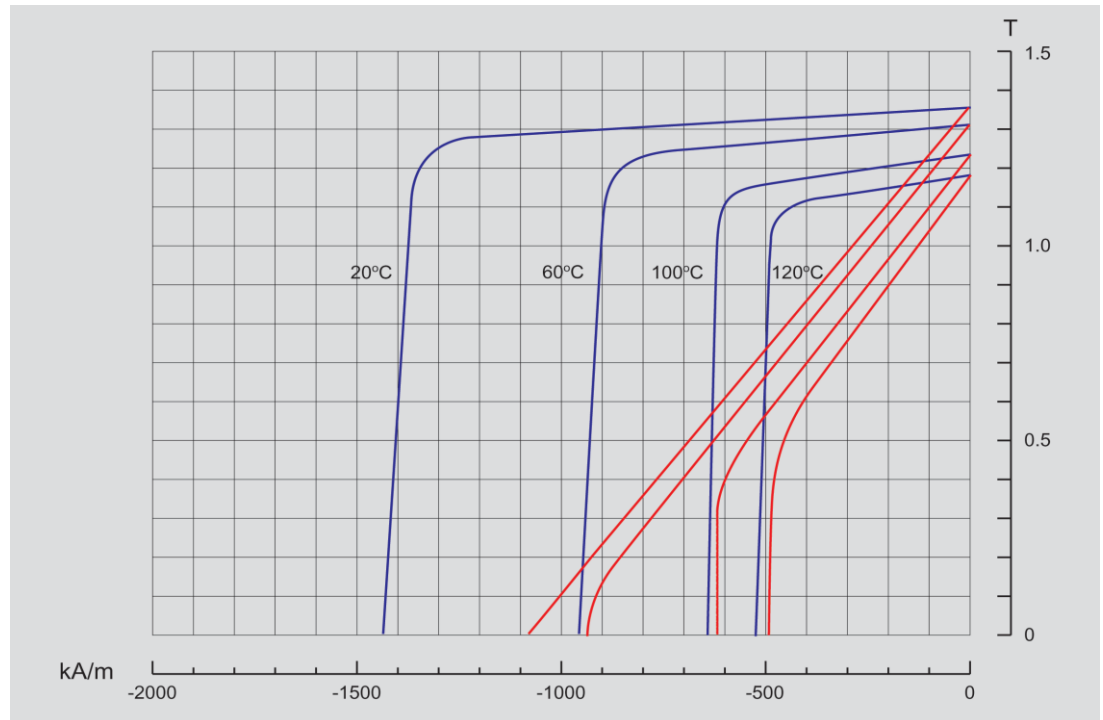
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N46H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N46H	1360	1380	1017	1051	1353	350	366	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

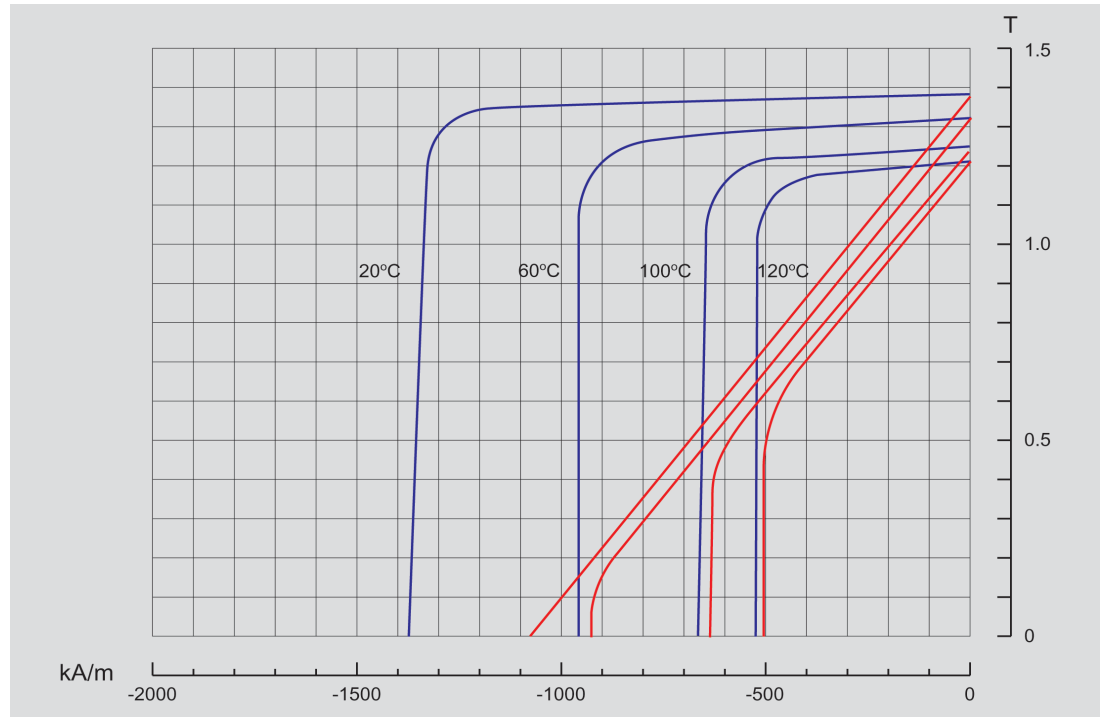
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg · K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N48H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N48H	1370	1410	1024	1074	1353	366	382	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

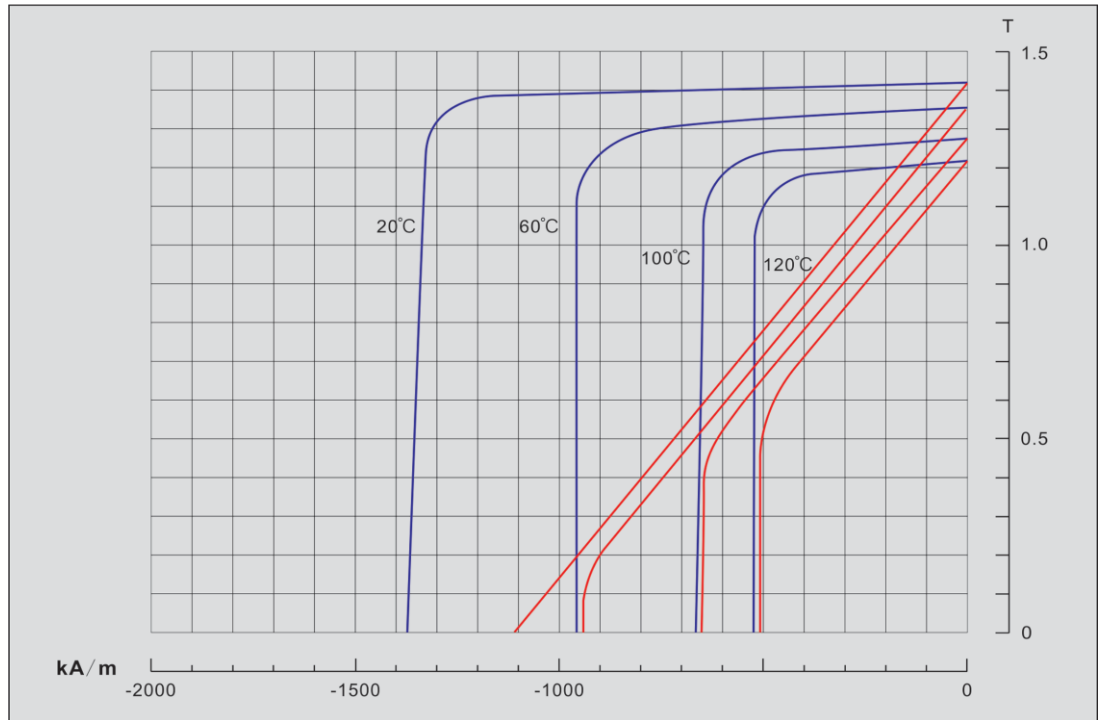
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N50H



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N50H	1410	1440	1054	1097	1353	382	398	-0.12	-0.66	-0.12	-0.60	120

Max Working temperature is only for reference as it is depended on the dimensions and shape.

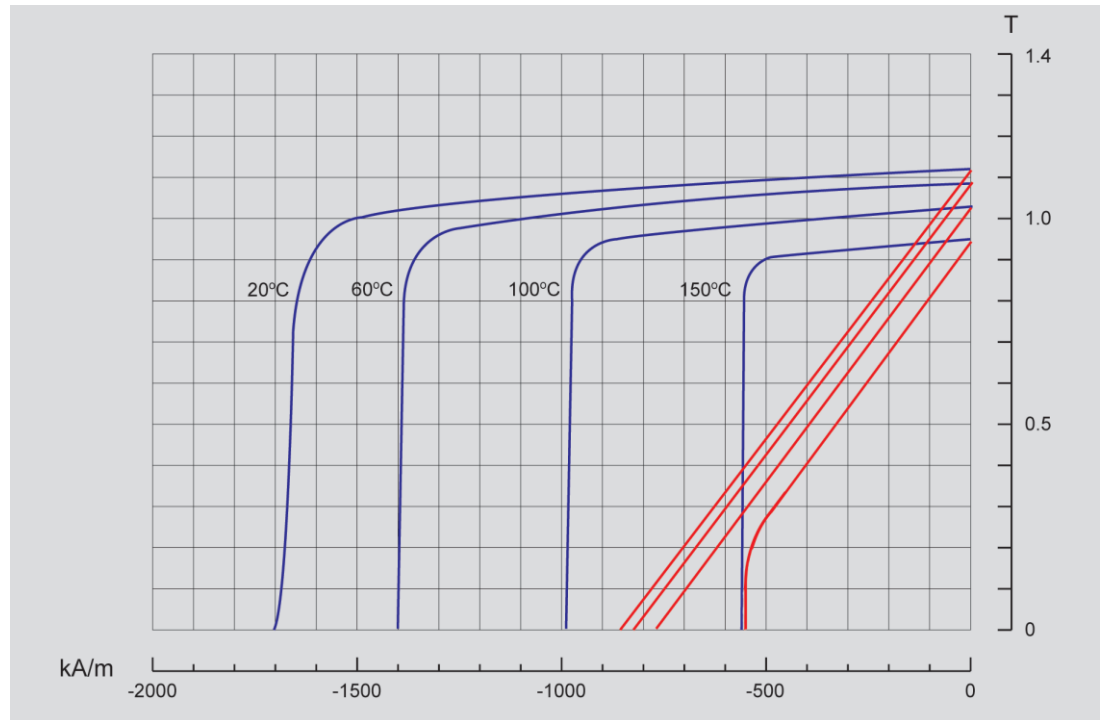
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N30SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N30SH	1080	1120	811	857	1592	223	239	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

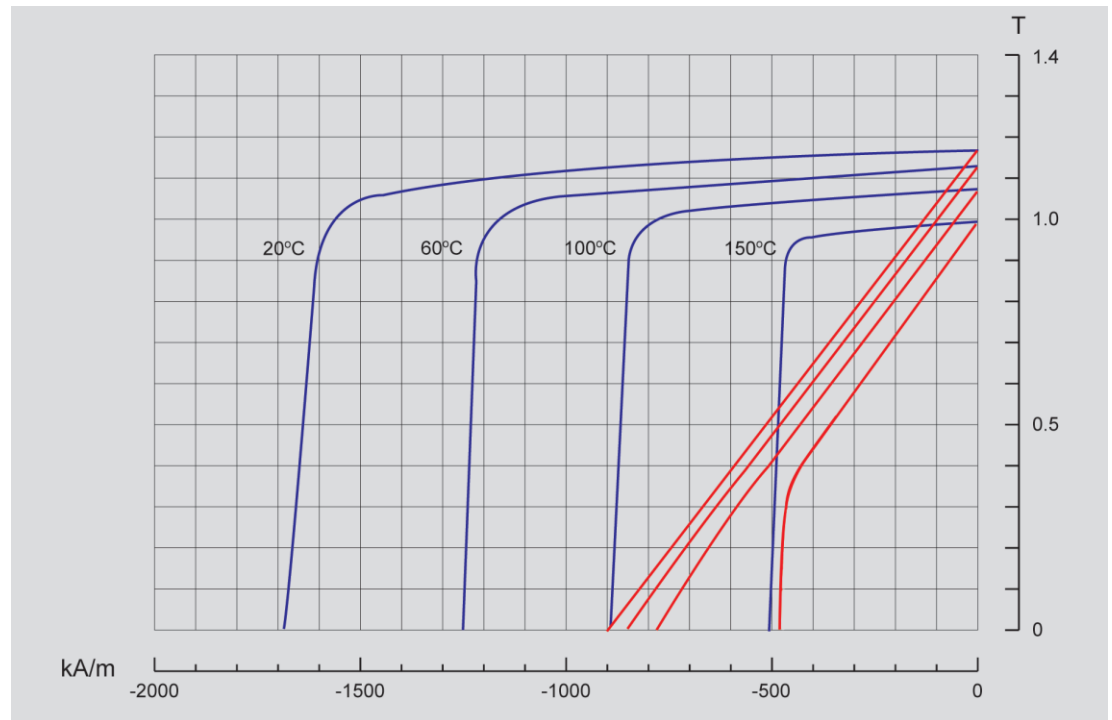
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N33SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% /C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N33SH	1140	1170	856	896	1592	239	263	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

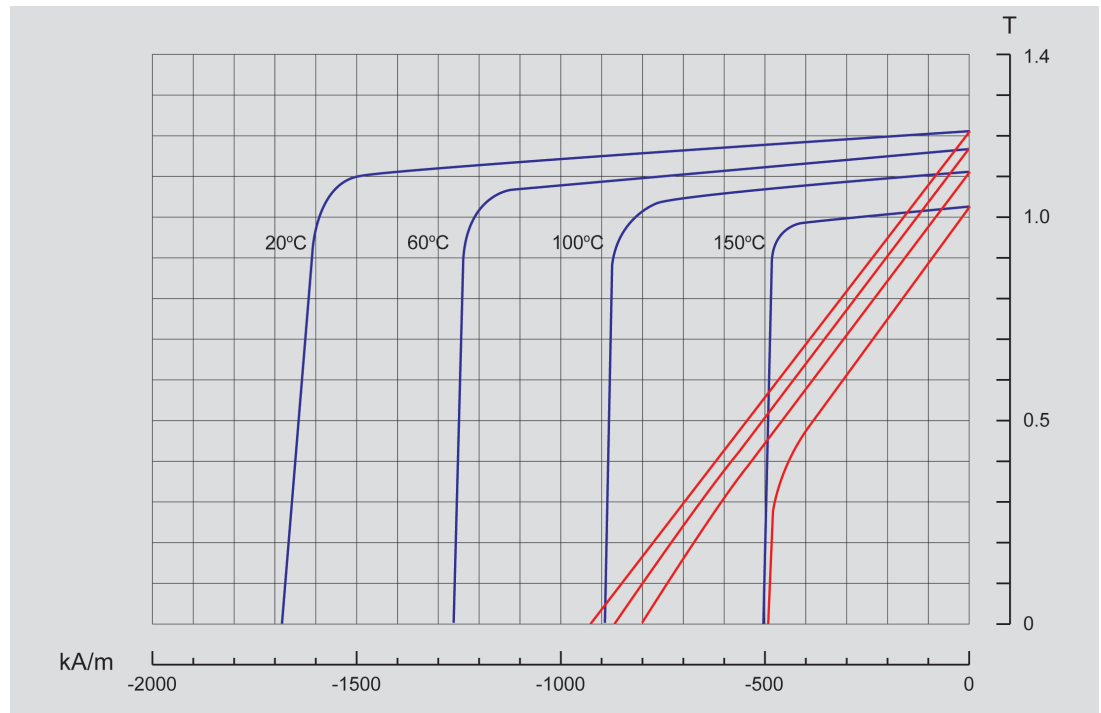
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N35SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N35SH	1170	1220	879	934	1592	263	279	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

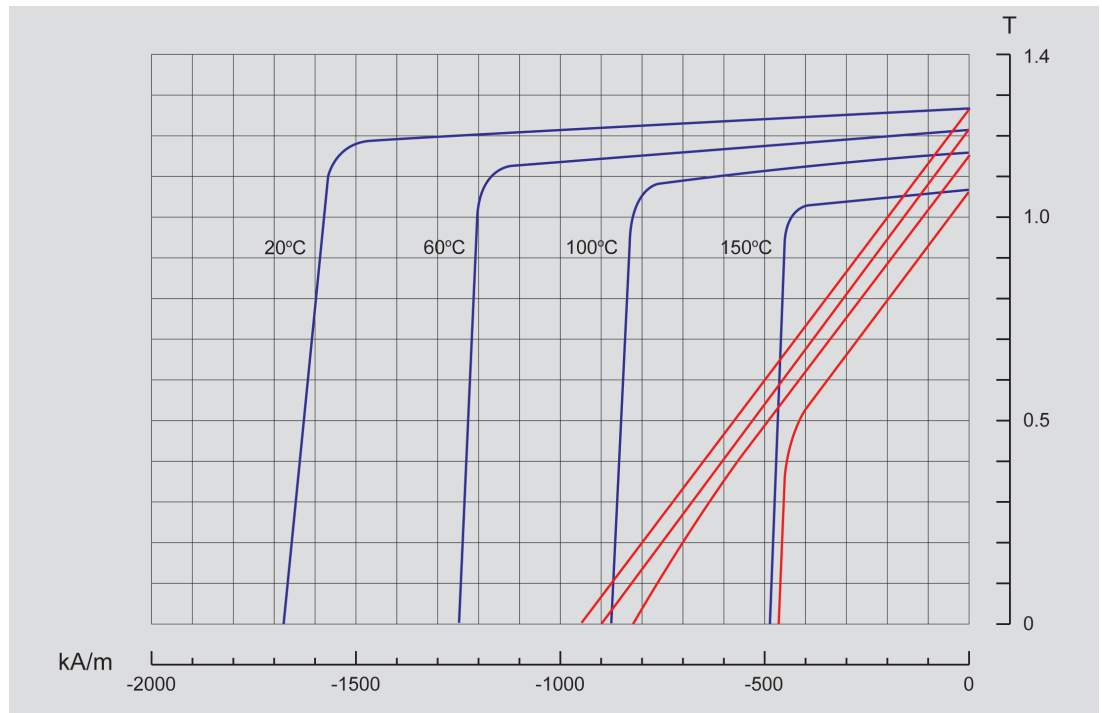
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg· K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N38SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N38SH	1220	1260	916	965	1592	279	303	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

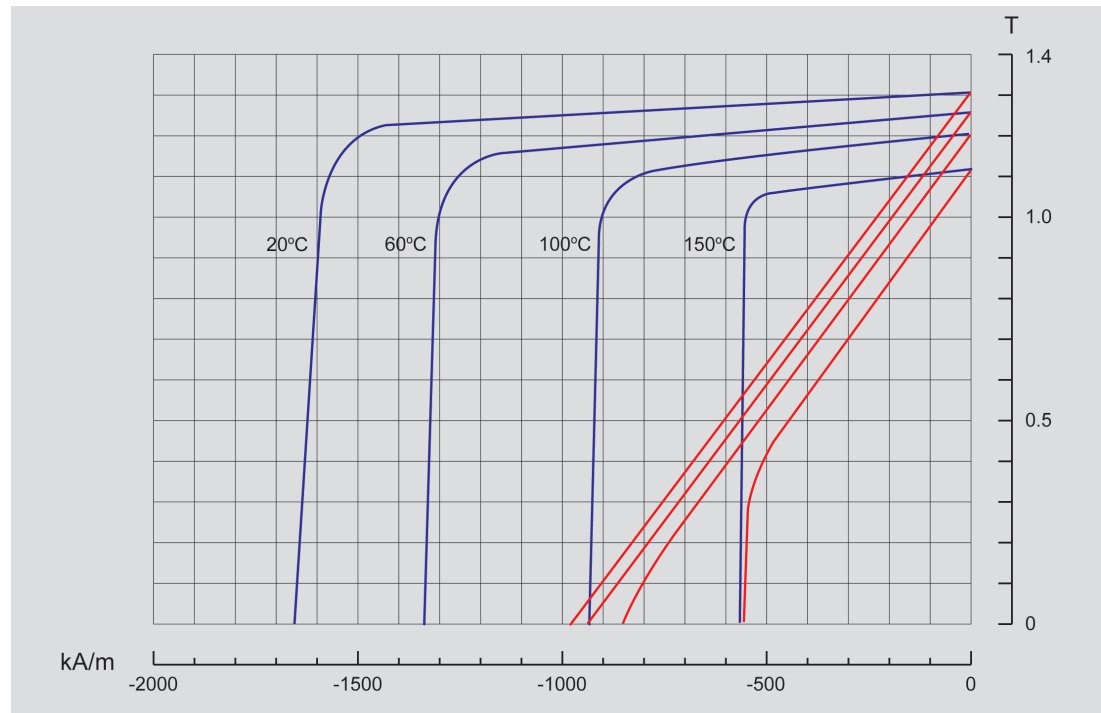
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N40SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N40SH	1260	1300	946	995	1592	303	318	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

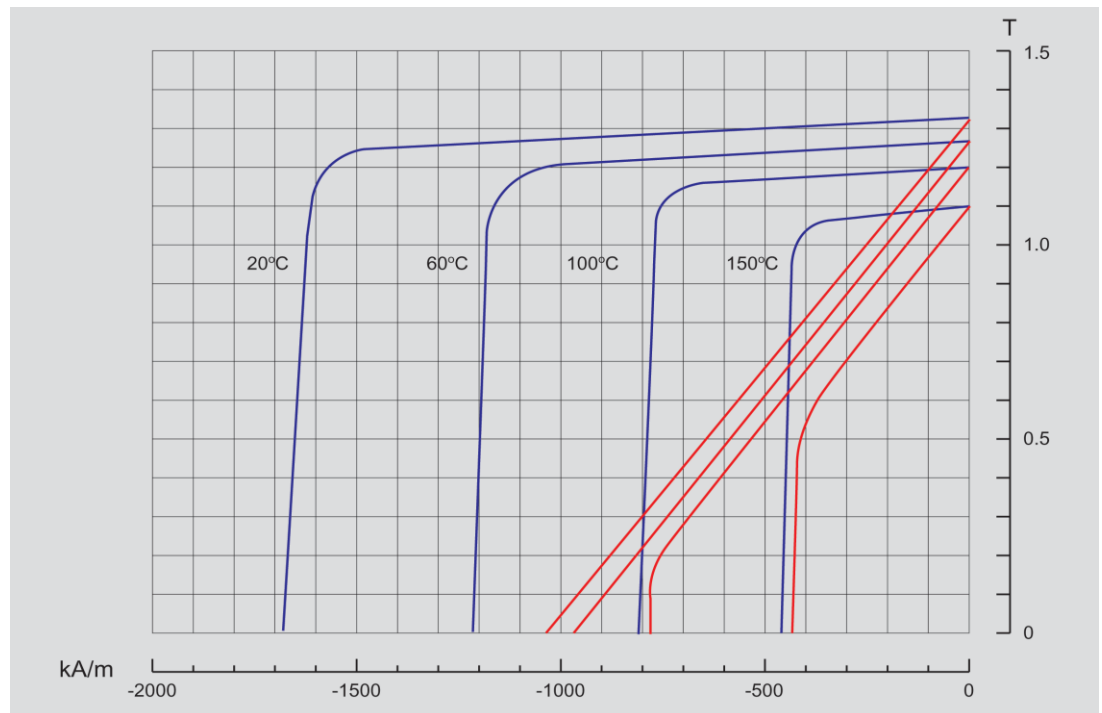
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N42SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N42SH	1300	1330	976	1018	1592	318	334	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

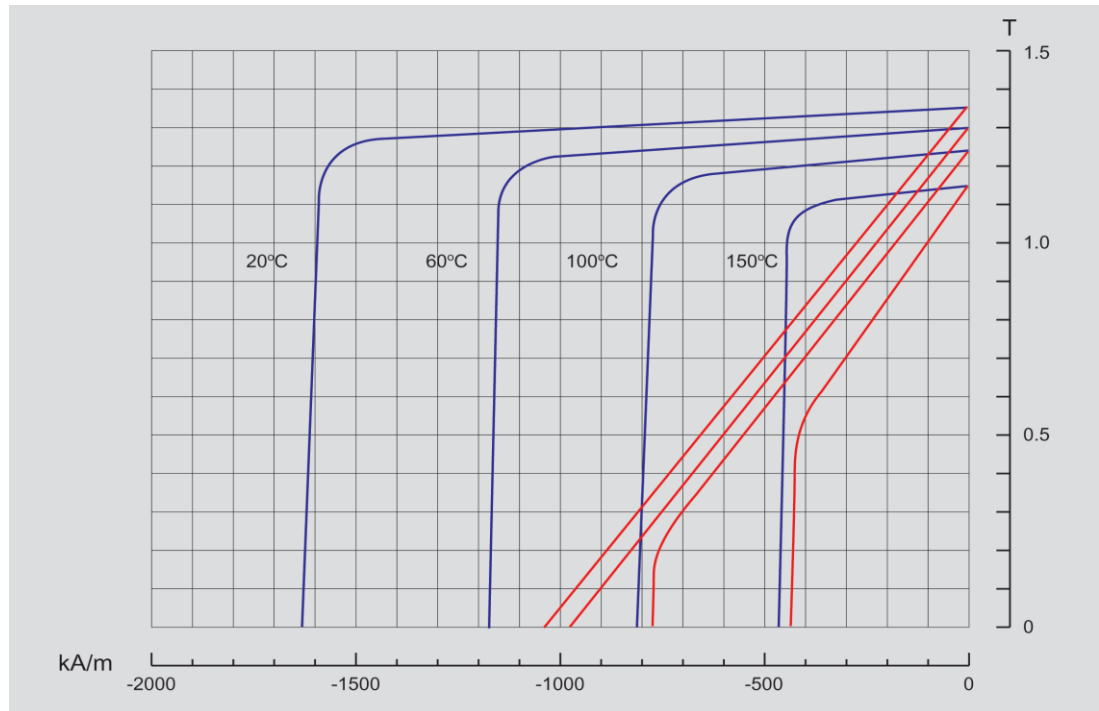
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N44SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N44SH	1330	1360	999	1041	1592	334	350	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

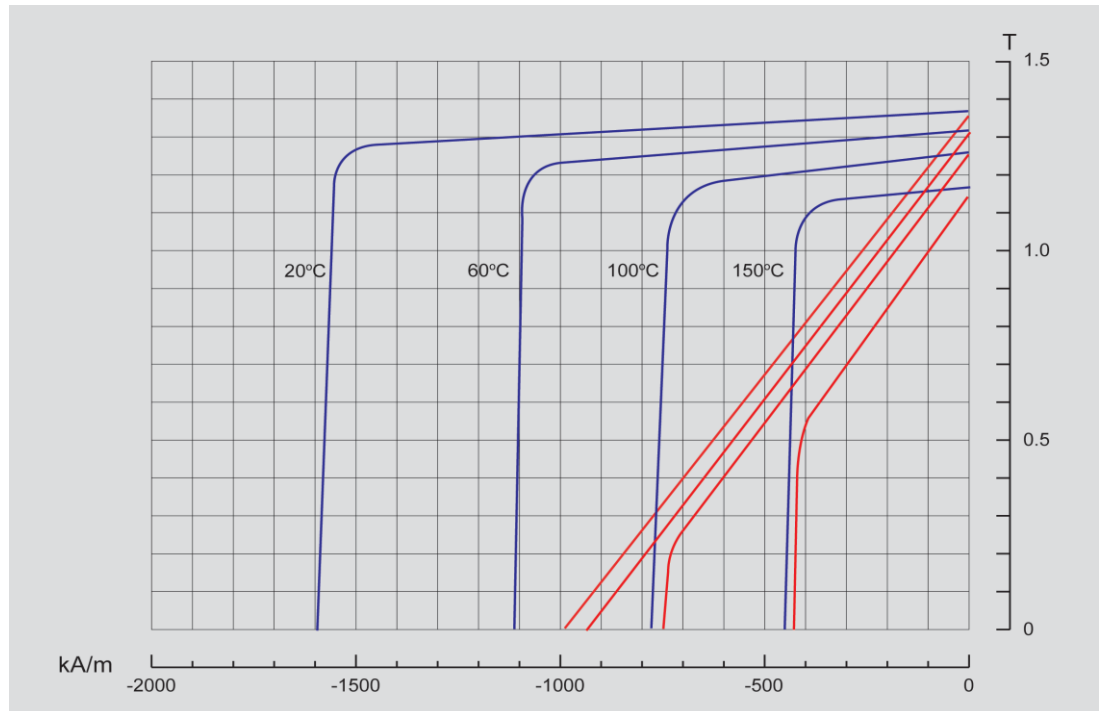
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg·K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N46SH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N46SH	1360	1380	1022	1056	1592	350	366	-0.115	-0.62	-0.12	-0.56	150

Max Working temperature is only for reference as it is depended on the dimensions and shape.

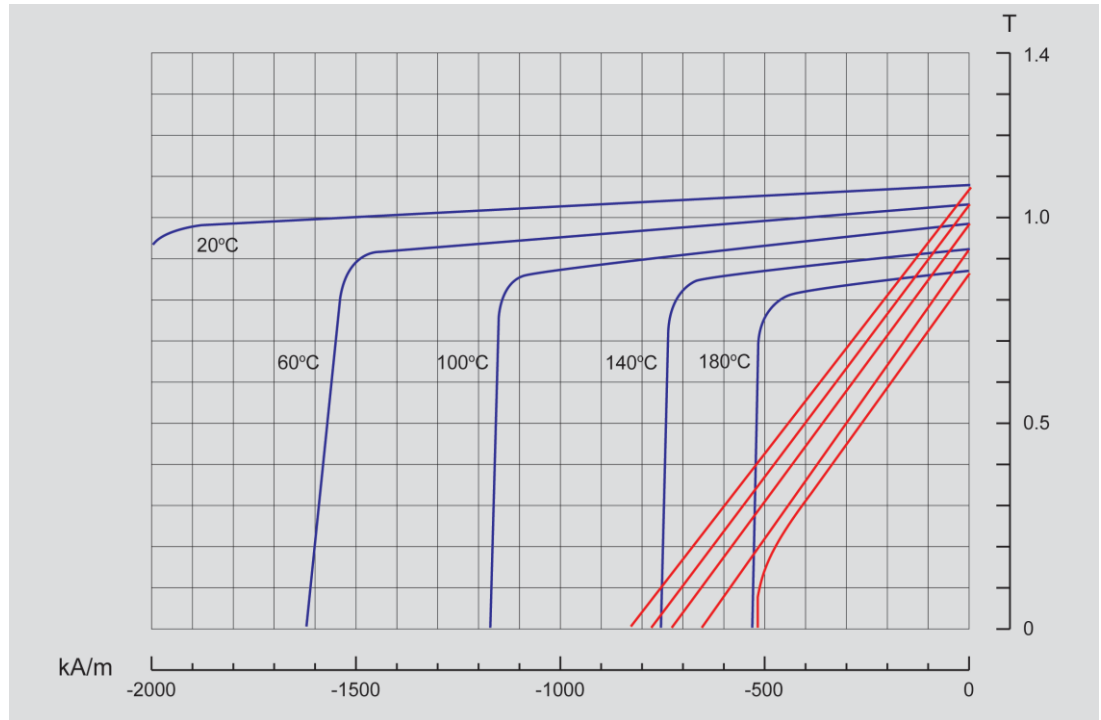
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg · K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N28UH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N28UH	1040	1080	785	831	1989	199	223	-0.110	-0.58	-0.115	-0.52	180

Max Working temperature is only for reference as it is depended on the dimensions and shape.

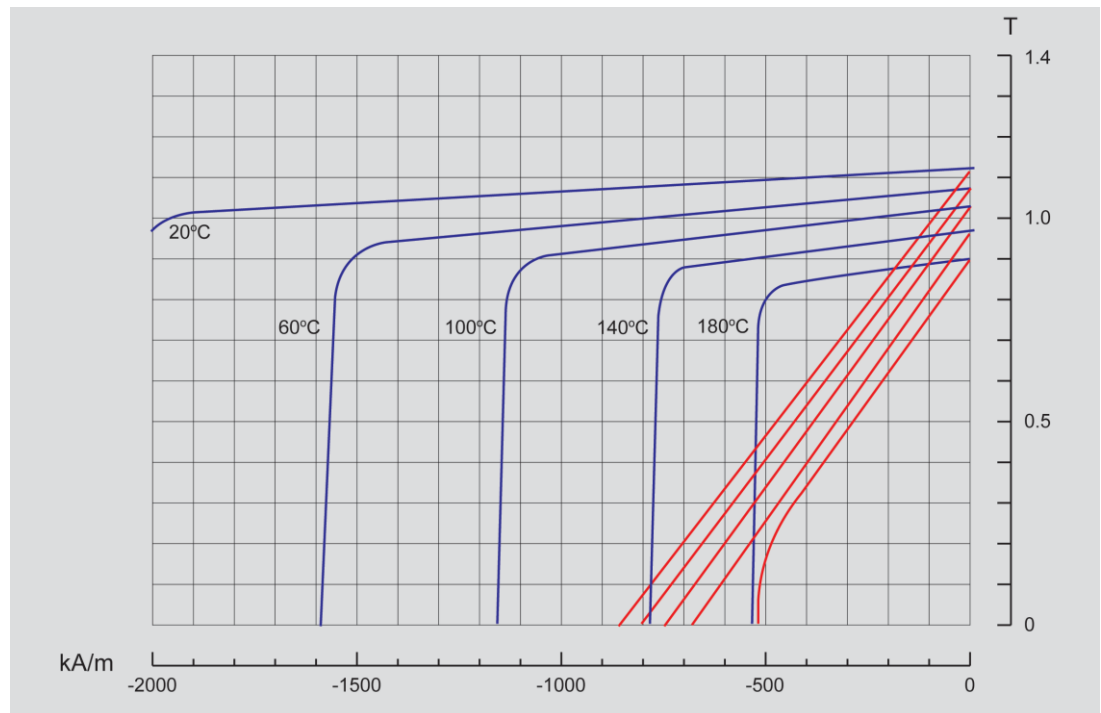
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N30UH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N30UH	1080	1120	815	862	1989	223	239	-0.110	-0.58	-0.115	-0.52	180

Max Working temperature is only for reference as it is depended on the dimensions and shape.

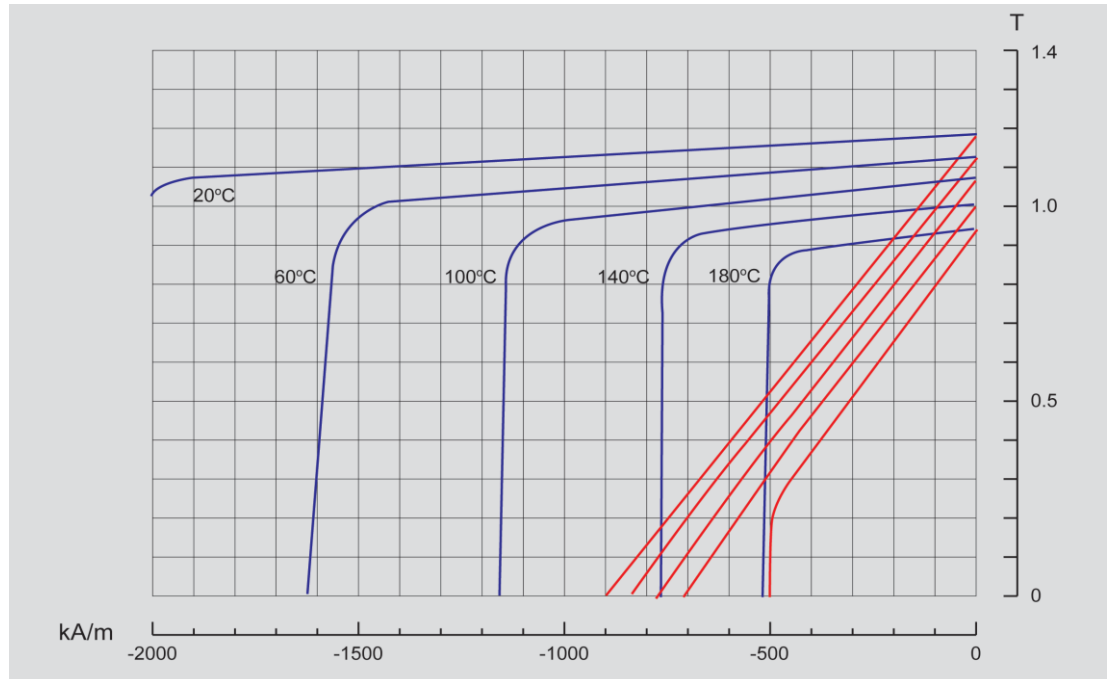
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N33UH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N33UH	1140	1170	860	900	1989	239	263	-0.110	-0.58	-0.115	-0.52	180

Max Working temperature is only for reference as it is depended on the dimensions and shape.

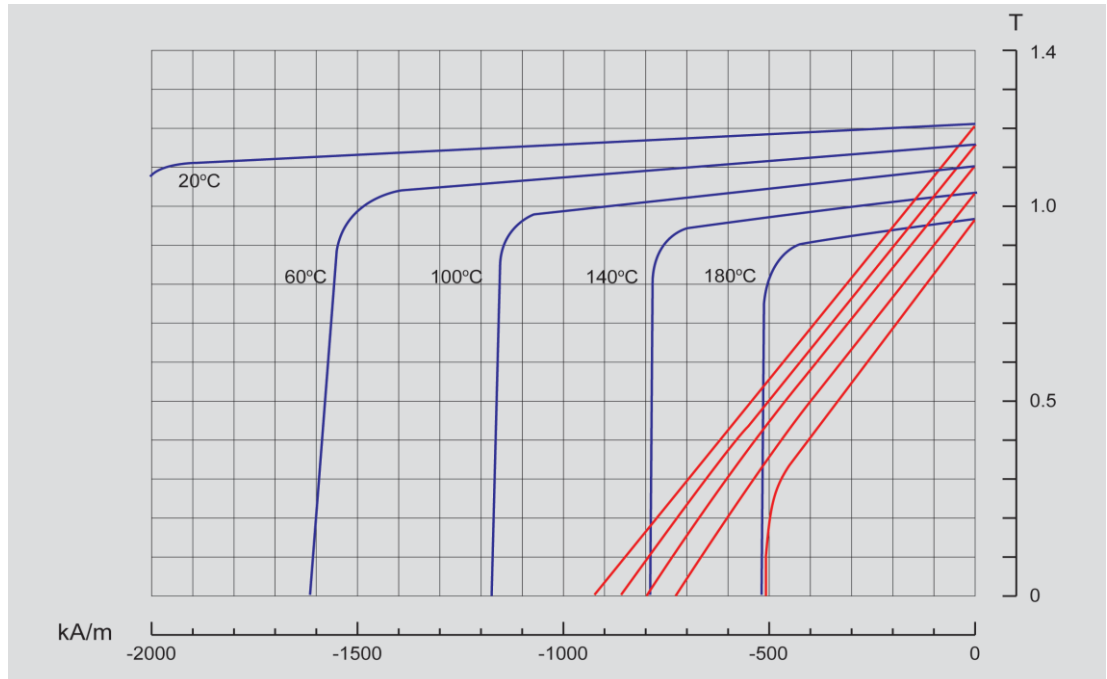
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N35UH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N35UH	1170	1220	883	938	1989	263	279	-0.110	-0.58	-0.115	-0.52	180

Max Working temperature is only for reference as it is depended on the dimensions and shape.

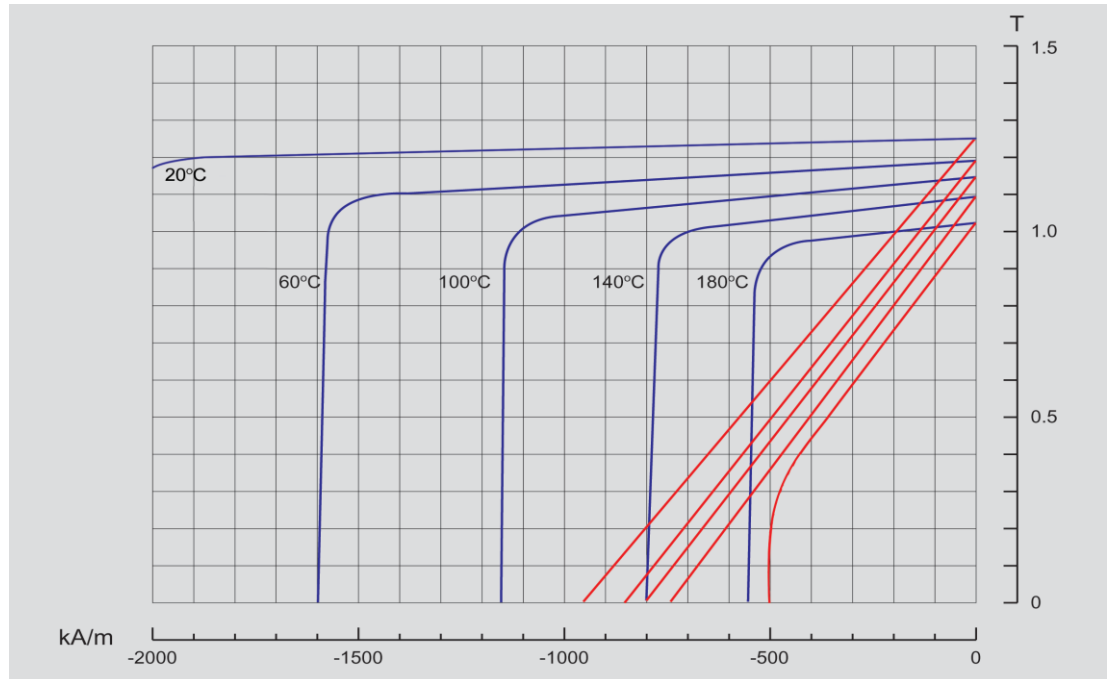
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N38UH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N38UH	1220	1260	921	969	1989	279	303	-0.110	-0.58	-0.115	-0.52	180

Max Working temperature is only for reference as it is depended on the dimensions and shape.

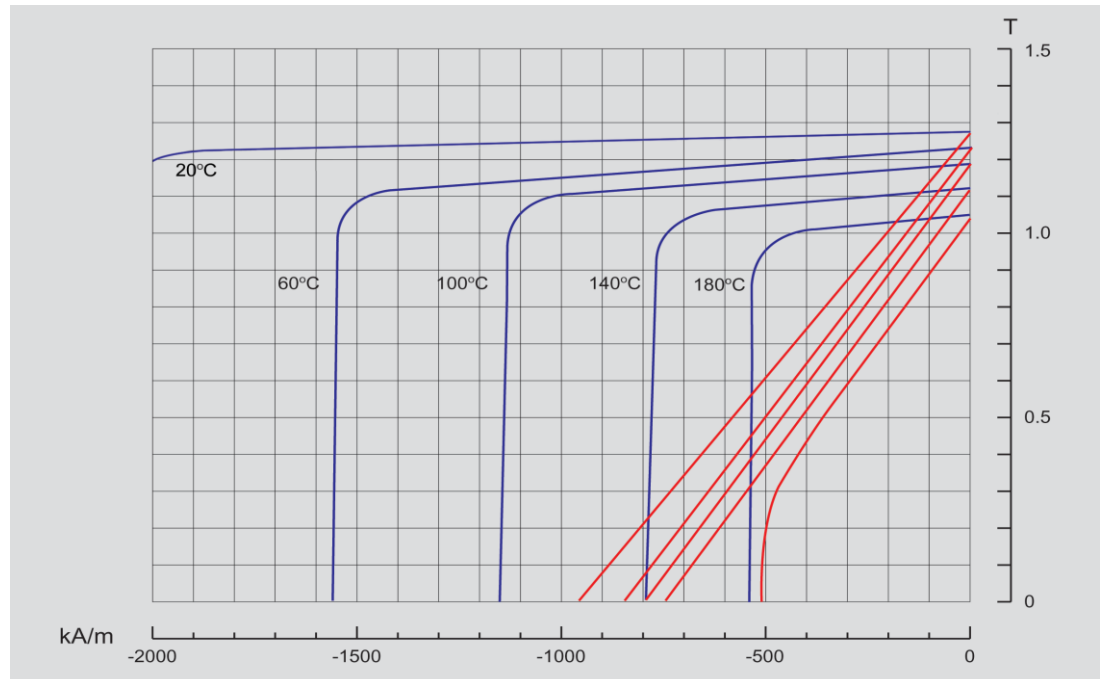
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N40UH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N40UH	1260	1300	951	1000	1989	303	318	-0.110	-0.58	-0.115	-0.52	180

Max Working temperature is only for reference as it is depended on the dimensions and shape.

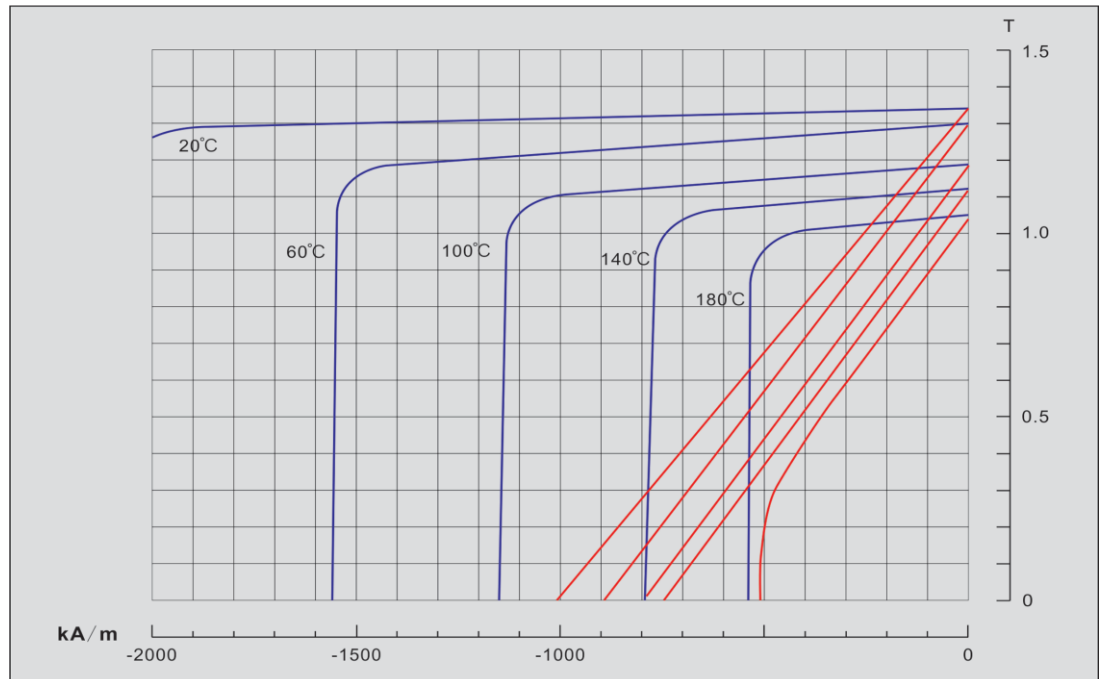
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N42UH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N42UH	1300	1330	981	1023	1989	318	334	-0.110	-0.58	-0.115	-0.52	180

Max Working temperature is only for reference as it is depended on the dimensions and shape.

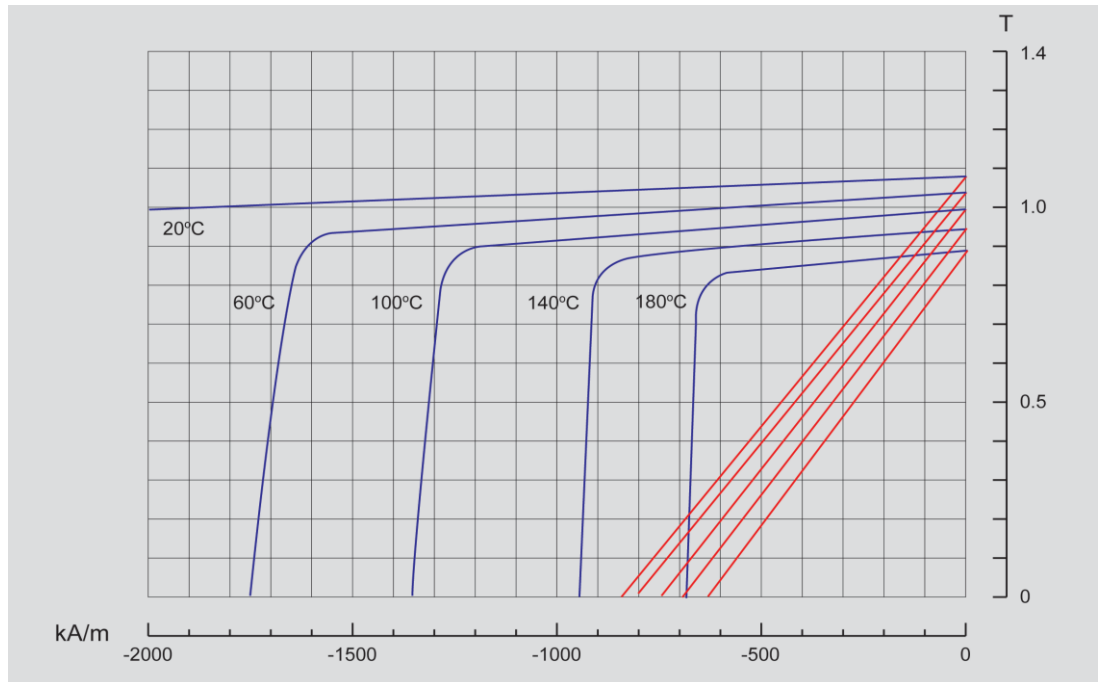
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N28EH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N28EH	1040	1080	785	831	2387	199	223	-0.105	-0.54	-0.110	-0.48	200

Max Working temperature is only for reference as it is depended on the dimensions and shape.

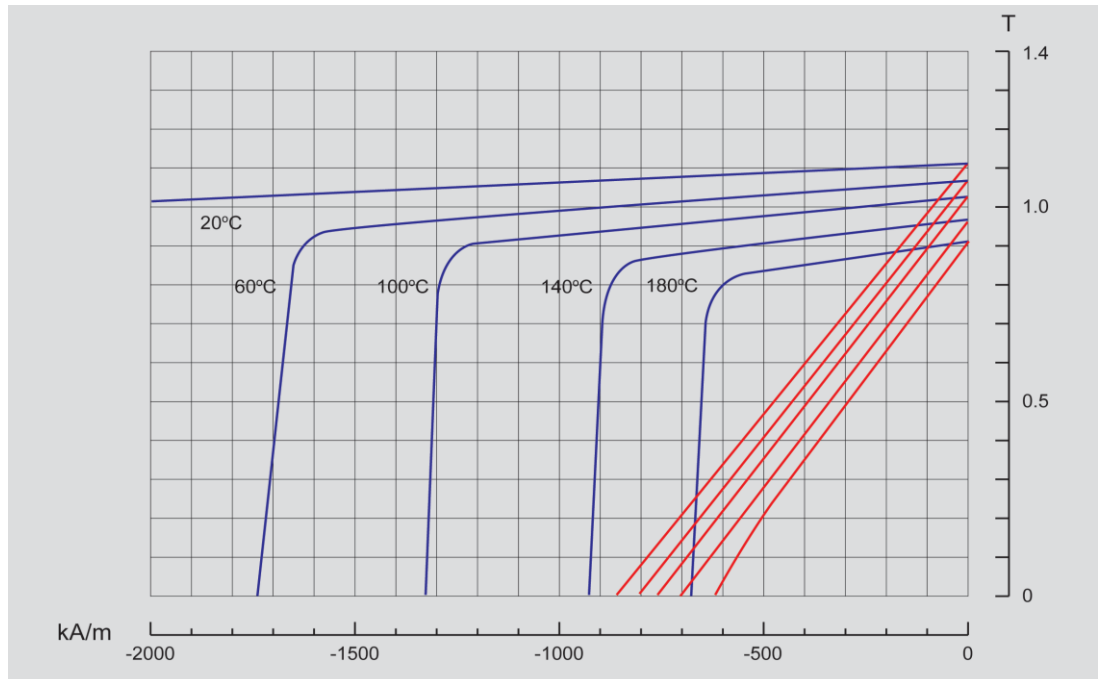
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N30EH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N30EH	1080	1120	815	862	2387	223	239	-0.105	-0.54	-0.110	-0.48	200

Max Working temperature is only for reference as it is depended on the dimensions and shape.

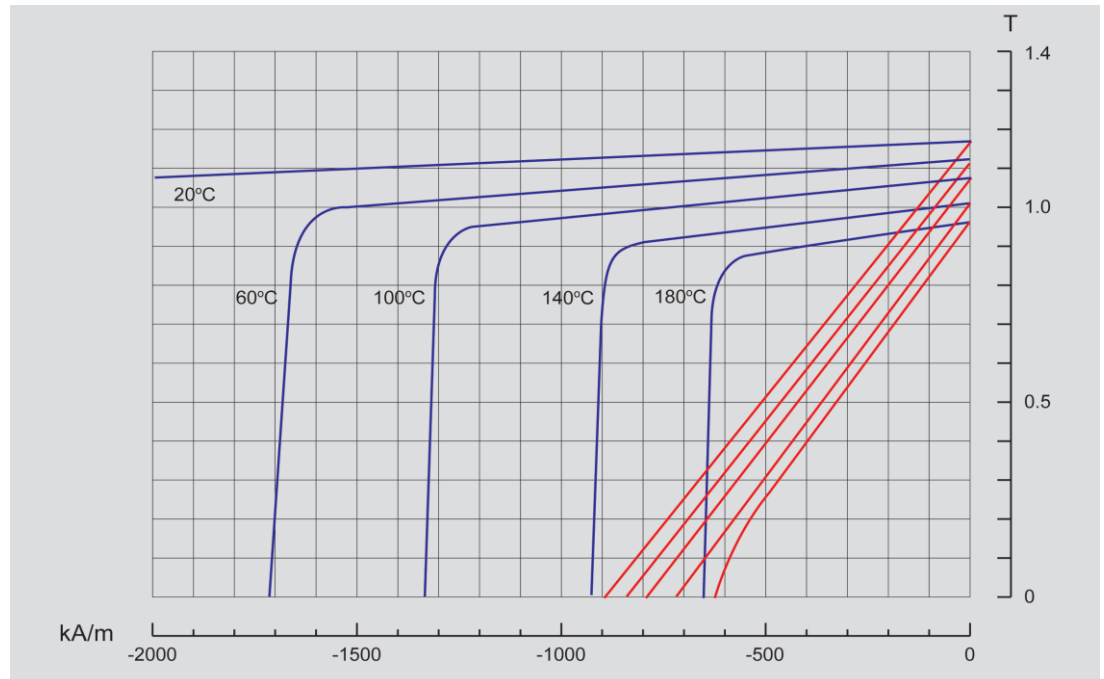
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 µm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 µm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 µm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 µm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 µm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 µm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N33EH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N33EH	1140	1170	860	900	2387	239	263	-0.105	-0.54	-0.110	-0.48	200

Max Working temperature is only for reference as it is depended on the dimensions and shape.

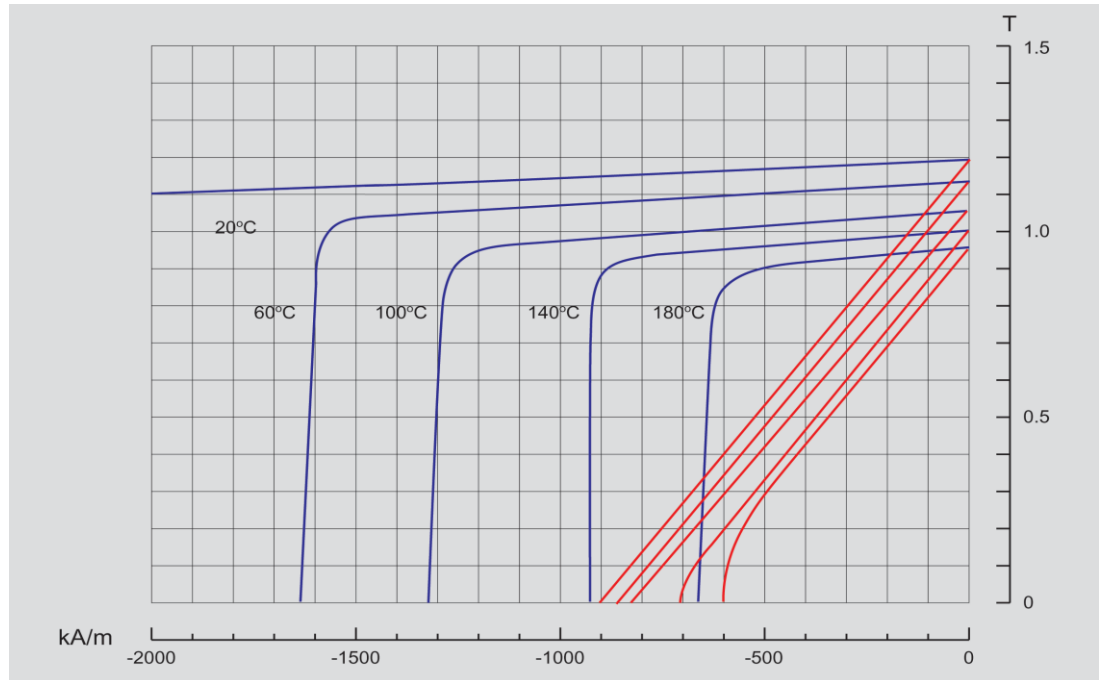
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N35EH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N35EH	1170	1220	863	938	2387	263	279	-0.105	-0.54	-0.110	-0.48	200

Max Working temperature is only for reference as it is depended on the dimensions and shape.

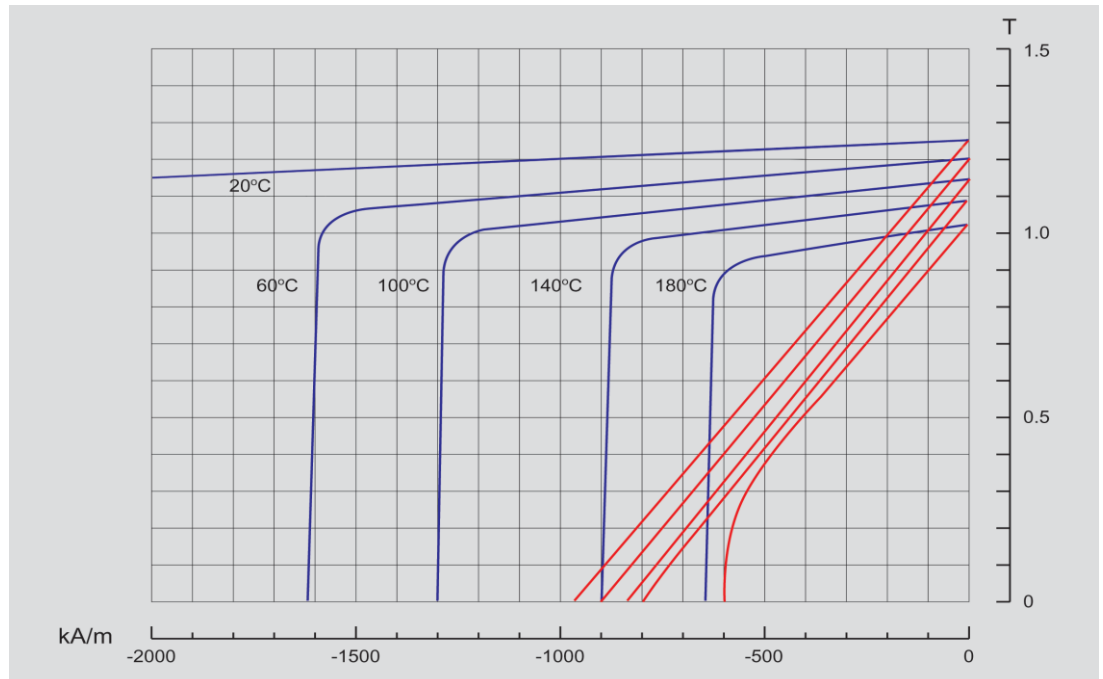
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N38EH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N38EH	1220	1260	921	969	2387	279	303	-0.105	-0.54	-0.110	-0.48	200

Max Working temperature is only for reference as it is depended on the dimensions and shape.

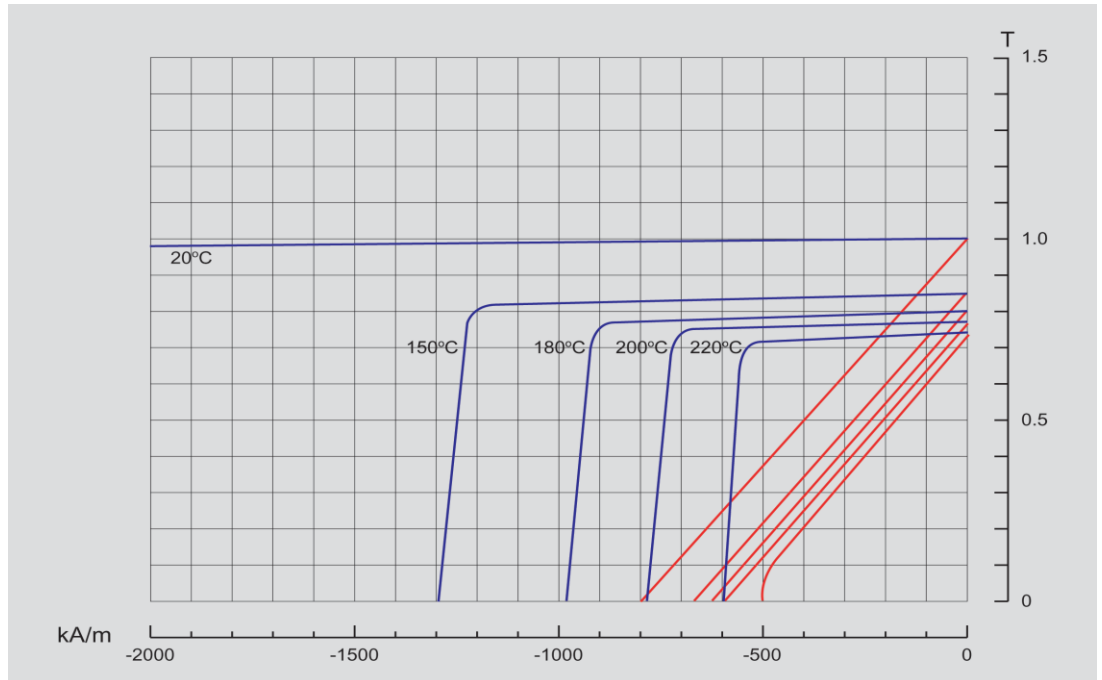
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N28AH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		%/C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N28AH	1040	1080	785	831	2787	199	223	-0.105	-0.50	-0.110	-0.45	220

Max Working temperature is only for reference as it is depended on the dimensions and shape.

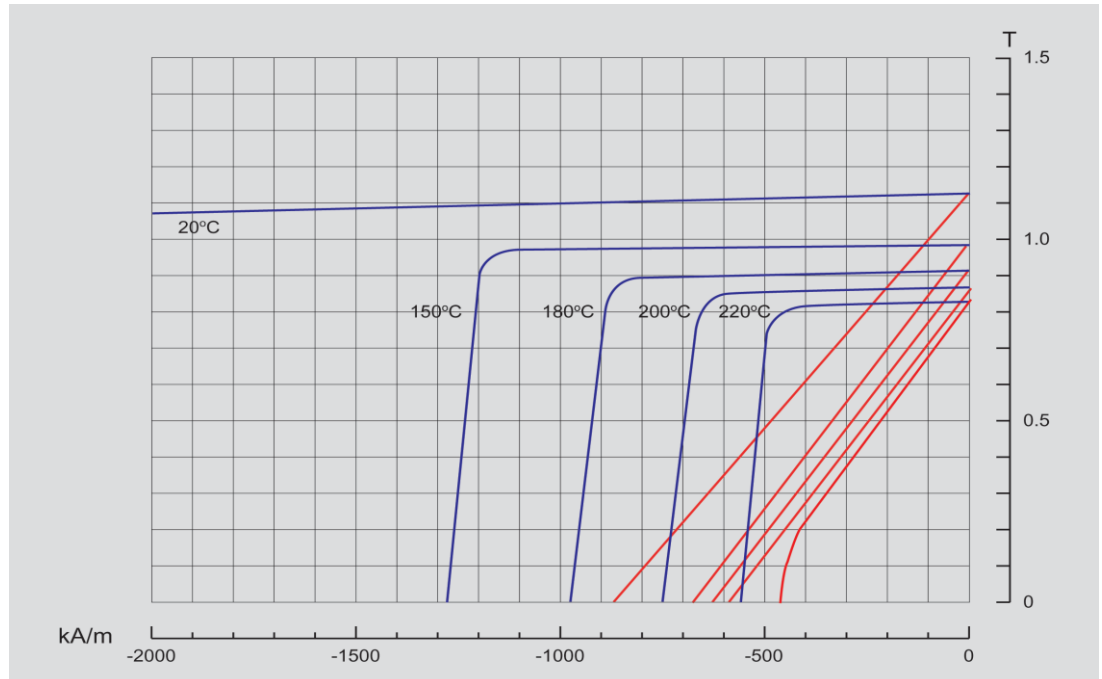
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N30AH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N30AH	1080	1120	815	862	2787	223	239	-0.105	-0.50	-0.110	-0.45	220

Max Working temperature is only for reference as it is depended on the dimensions and shape.

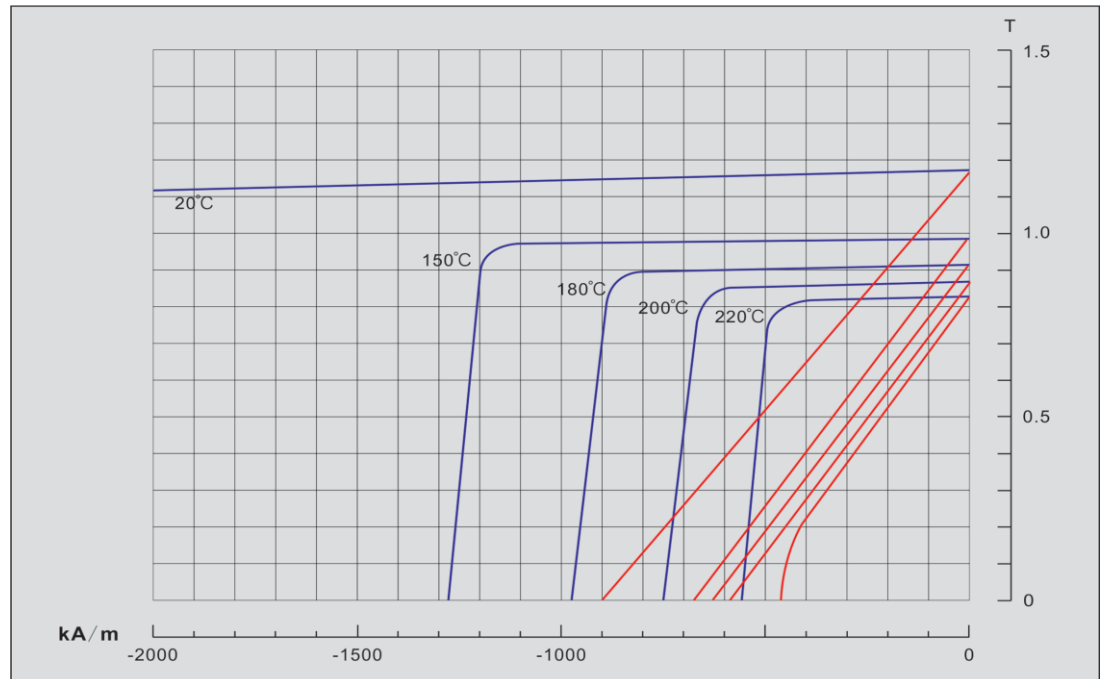
Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg·K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N33AH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N33AH	1140	1170	860	900	2787	239	263	-0.105	-0.50	-0.110	-0.45	220

Max Working temperature is only for reference as it is depended on the dimensions and shape.

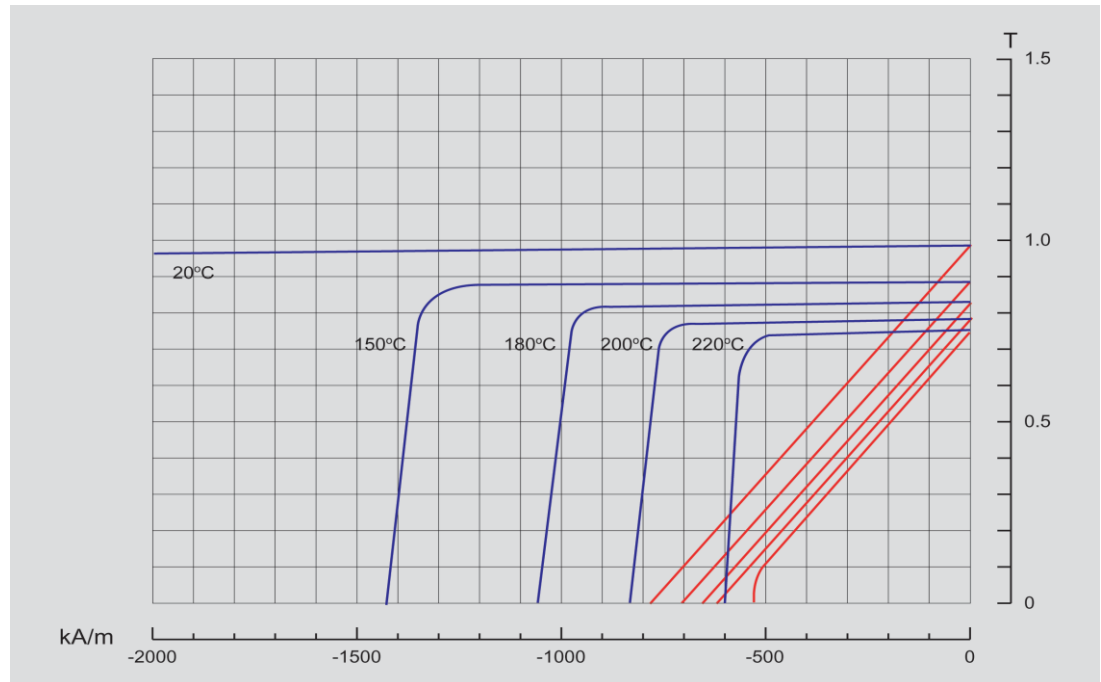
Mechanical properties			
Density (g/cm ³)	7.4~7.6		Bending strength (MPa)
Vickers Hardness (Hv)	500~700		260
Young's Modulus (KN/mm ²)	140~170		Compression strength (MPa)
Curie Temperature C°	310~360		1 000
Spec. heat capacity (J/kg · K)	350~550		Thermal Conductivity (W / m·K)
			5~10
			Electrical Resistance (10 ⁻⁶ Ωm)
			1.4~1.6

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere

Sintered Rare Earth Magnets NdFeB

N25BH



Material data according to DIN IEC 60404-8-1

Grade	Remanence		Coercivity		Intrinsic coercivity	Energy Product		Temperature coefficient				Max. operating temp. C°
	Br		Hcb		Hcj	BH(max)		20-100C°		20-150C°		
	mT		kA/m		kA/m (min)	kJ/m3		% / C°				
	min	typ	min	typ	20C°	min	typ	Tc(Br) typ	Tc(Hcj) typ	Tc(Br) typ	Tc(Hcj) typ	
N25BH	980	1020	740	785	3000	183	199	-0.105	-0.50	-0.110	-0.45	240

Max Working temperature is only for reference as it is depended on the dimensions and shape.

Mechanical properties			
Density (g/cm ³)	7.4~7.6	Bending strength (MPa)	260
Vickers Hardness (Hv)	500~700	Compression strength (MPa)	1 000
Young's Modulus (KN/mm ²)	140~170	Thermal Conductivity (W / m·K)	5~10
Curie Temperature C°	310~360	Electrical Resistance (10 ⁻⁶ Ωm)	1.4~1.6
Spec. heat capacity (J/kg · K)	350~550		

The values shall be regarded as typical values.

Standard Coatings	Type	Typical layer thickness	Surface color	Remarks
Passivation		0.1-0.3 μm	Silver grey	Temporary Protection
Nickel coating	Ni+Cu+Ni	10-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Zinc coating	Blue Zn	8-20 μm	Blue white shining	Good resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 μm	Silver semi bright	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 μm	Gold shining	Temporary treatment
Epoxy	Ni+Cu Epoxy	15-25 μm	Black	Excellent climatic and salt spray resistance
Chemical Coating	Ni	10-20 μm	Silver semi bright	Excellent resistance to humid atmosphere