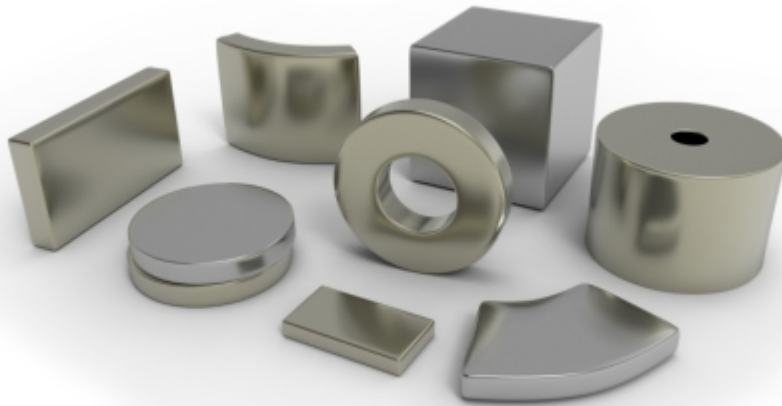




ARNOLD[®]
MAGNETIC TECHNOLOGIES



Grain Boundary Diffused Neodymium Iron Boron Magnet Catalog

“GBD Neo” magnets offer a combination of high energy density and temperature stability at moderate cost by reducing the amount of Dysprosium (Dy) (GBDD) and Terbium (Tb) (GBDT) used. This process enhances coercivity while limiting the adverse effects on remanence, when compared to traditional neo manufacturing methods. This process favors smaller magnets with a thickness of less than 6mm or laminated materials. For high frequency applications at working temperatures approaching 180°C, consider using this product.

www.ArnoldMagnetics.com

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Neodymium-Iron-Boron Magnet Grades Summary Product List & Reference Guide

Grain Boundary Diffused Grades

Properties	B_r		H_{cB}		H_{cJ}		$(BH)_{max}$		Temp. Coef.		T_w	
	Grade**	Typical mT	Typical gauss	min kA/m	min oersteds	min kA/m	min oersteds	Typical kJ/m ³	Typical MGOe	$\alpha(B_r)$ %/°C	$\alpha(H_{cJ})$ %/°C	max °C
3	G45SH	1350	13500	979	12300	1592	20000	354	44	-0.12	-0.549	150
4	G48SH	1390	13900	1011	12700	1592	20000	374	47	-0.12	-0.549	150
5	G50SH	1425	14250	836	10500	1592	20000	390	49	-0.12	-0.549	150
6	G52SH	1440	14400	1067	13400	1592	20000	402	51	-0.12	-0.549	150
7	G55SH	1460	14600	1083	13600	1512	19000	418	53	-0.12	-0.549	150
8	G57SH	1480	14800	1098	13800	1512	19000	426	54	-0.12	-0.549	150
9	GB48SH	1390	13900	1011	12700	1751	22000	374	47	-0.12	-0.549	150
10	GB50SH	1425	14250	836	10500	1751	22000	390	49	-0.12	-0.549	150
11	GB52SH	1440	14400	1067	13400	1751	22000	402	51	-0.12	-0.549	150
12	GB55SH	1460	14600	1083	13600	1672	21000	418	53	-0.12	-0.549	150
13	G38UH	1260	12600	876	11000	1990	25000	306.5	39	-0.12	-0.51	180
14	G40UH	1270	12700	915	11500	1990	25000	318	40	-0.12	-0.51	180
15	G42UH	1310	13100	955	12000	1990	25000	330	41	-0.12	-0.51	180
16	G45UH	1350	13500	979	12300	1990	25000	354	44	-0.12	-0.51	180
17	G48UH	1390	13900	1011	12700	1990	25000	374	47	-0.12	-0.51	180
18	G50UH	1410	14100	1051	13200	1990	25000	386	49	-0.12	-0.51	180
19	G52UH	1430	14300	1067	13400	1990	25000	394	50	-0.12	-0.51	180
20	G54UH	1450	14500	1075	13500	1910	24000	418	53	-0.12	-0.51	180
21	GB42UH	1310	13100	955	12000	2149	27000	330	41	-0.12	-0.465	180
22	GB45UH	1350	13500	979	12300	2149	27000	354	44	-0.12	-0.465	180
23	GB48UH	1390	13900	1011	12700	2419	27000	374	47	-0.12	-0.465	180
24	GB50UH	1410	14100	1051	13200	2449	27000	386	49	-0.12	-0.465	180
25	GB52UH	1430	14300	1067	13400	1990	25000	394	50	-0.12	-0.51	180
26	G30EH	1125	11250	812	10200	2388	30000	243	31	-0.12	-0.472	200
27	G33EH	1165	11650	820	10300	2388	30000	267	34	-0.12	-0.472	200
28	G35EH	1200	12000	836	10500	2388	30000	279	35	-0.12	-0.472	200
29	G38EH	1260	12600	876	11000	2388	30000	306.5	39	-0.12	-0.472	200
30	G40EH	1270	12700	915	11500	2388	30000	318	40	-0.12	-0.472	200
31	G42EH	1310	13100	955	12000	2388	30000	330	41	-0.12	-0.472	200
32	G44EH	1310	13100	971	12200	2388	30000	338	42	-0.12	-0.472	200
33	G46EH	1360	13600	1011	12700	2388	30000	362	45	-0.12	-0.472	200
34	G48EH	1385	13850	1027	12900	2388	30000	370	46	-0.12	-0.472	200
35	GB38EH	1260	12600	876	11000	2547	32000	306.5	39	-0.12	-0.472	200
36	GB40EH	1285	12850	915	11500	2547	32000	318	40	-0.12	-0.472	200
37	GB44EH	1310	13100	971	12200	2547	32000	338	42	-0.12	-0.472	200
38	GB46EH	1360	13600	1011	12700	2547	32000	362	45	-0.12	-0.472	200
39	G30AH	1125	11250	812	10200	2706	34000	243	31	-0.12	-0.449	220
40	G33AH	1165	11650	820	10300	2706	34000	267	34	-0.12	-0.449	220
41	G35AH	1200	12000	836	10500	2706	34000	279	35	-0.12	-0.449	220
42	G38AH	1260	12600	876	11000	2706	34000	306.5	39	-0.12	-0.449	220
43	G40AH	1270	12700	915	11500	2706	34000	318	40	-0.12	-0.449	220
44	GS38EH	1250	12500	923	11600	2786	35000	298.5	38	-0.12	-0.472	200
45	GS40EH	1275	12750	955	12000	2786	35000	322	40	-0.12	-0.472	200
46	GS44EH	1320	13200	979	12300	2786	35000	346	43	-0.12	-0.472	200
47	GSB38EH	1235	12350	915	11500	2945	37000	306.5	39	-0.12	-0.472	200
48	GSB40EH	1275	12750	955	12000	2945	37000	323.5	41	-0.12	-0.472	200

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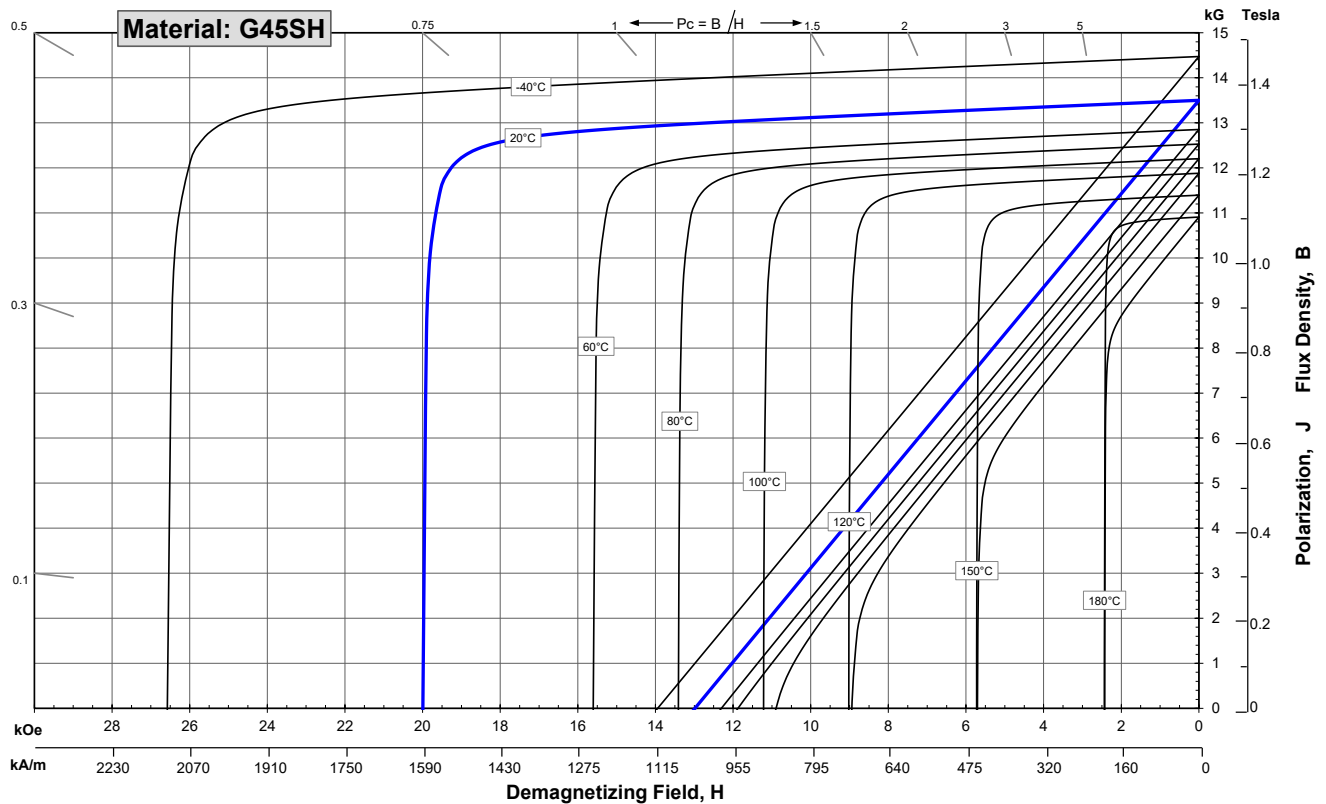
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,200	13,500	13,800
	mT	1320	1350	1380
H_{cB} , Coercivity	Oersteds	12,300	12,750	13,200
	kA/m	979	1015	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	43	45	46
	kJ/m ³	342	354	366

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. **Demagnetization curves show nominal Br and minimum H_{cj}.** Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

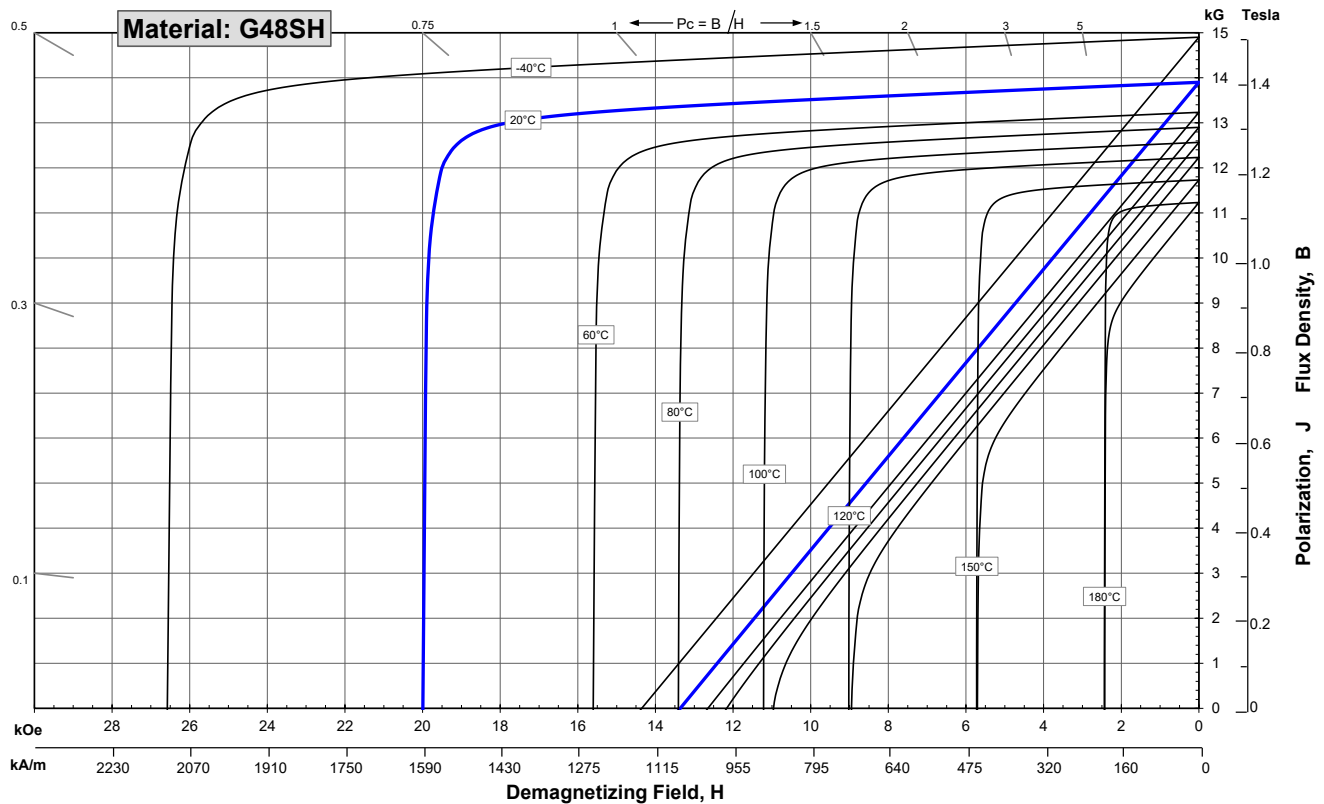
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



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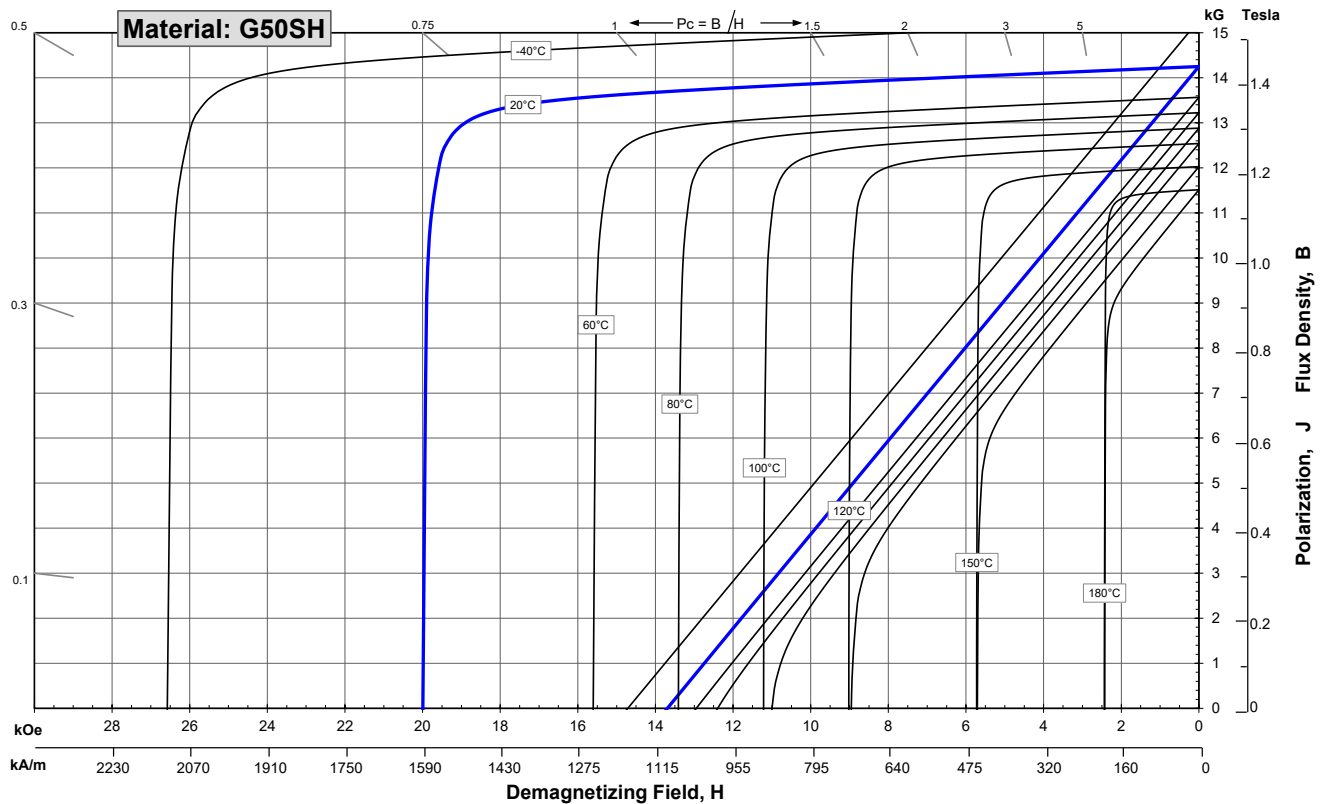
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,900	14,250
		mT	1390	1425	1460
H_{cB} , Coercivity		Oersteds	10,500	12,250	14,000
		kA/m	836	975	1114
H_{cJ} , Intrinsic Coercivity		Oersteds	20,000		
		kA/m	1,592		
BH_{max} , Maximum Energy Product		MGOe	47	49	51
		kJ/m ³	374	390	406

Thermal Properties	Characteristic	Units	C //	C ⊥
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.55
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7	-1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾		cal/g°C	0.11	
	Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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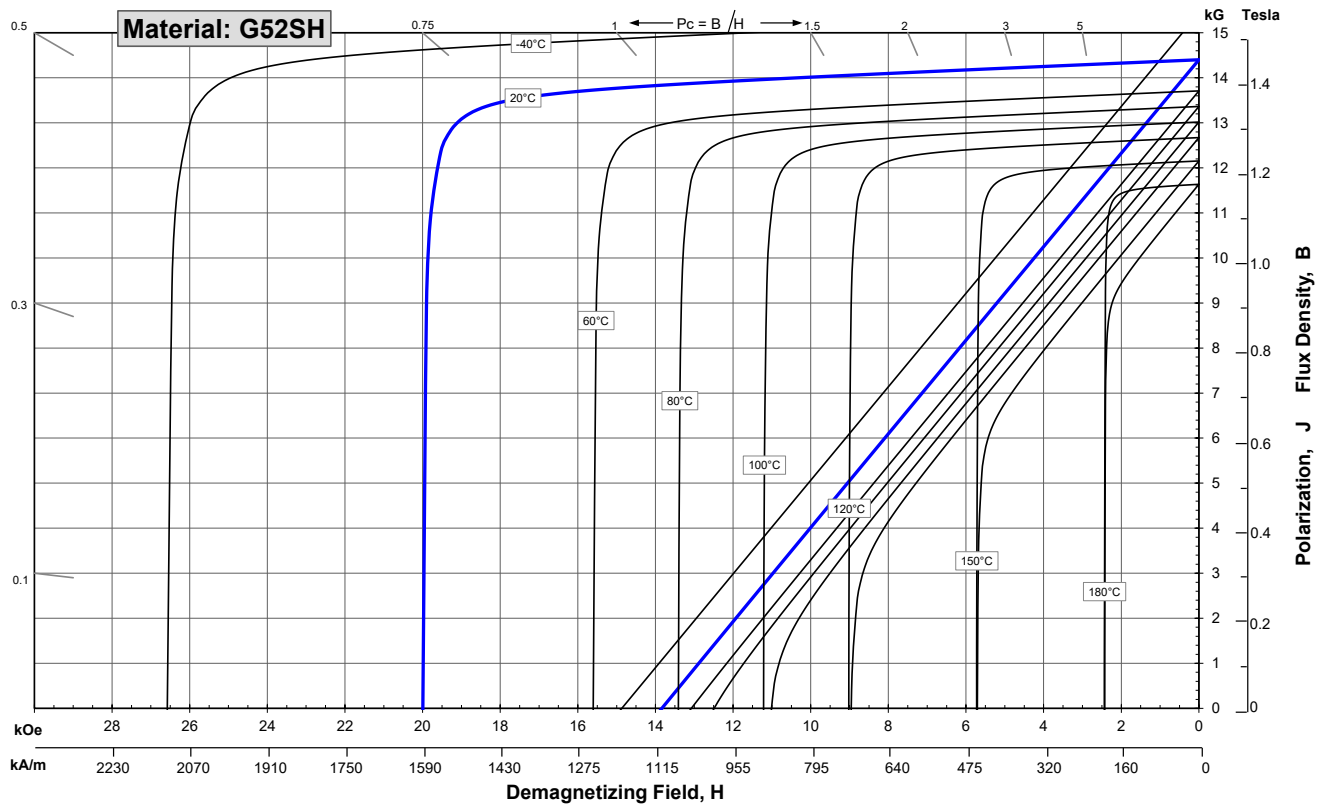
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,200	14,400	14,600
	mT	1420	1440	1460
H_{cB} , Coercivity	Oersteds	13,400	13,700	14,000
	kA/m	1067	1090	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	48	51	53
	kJ/m ³	382	402	422

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



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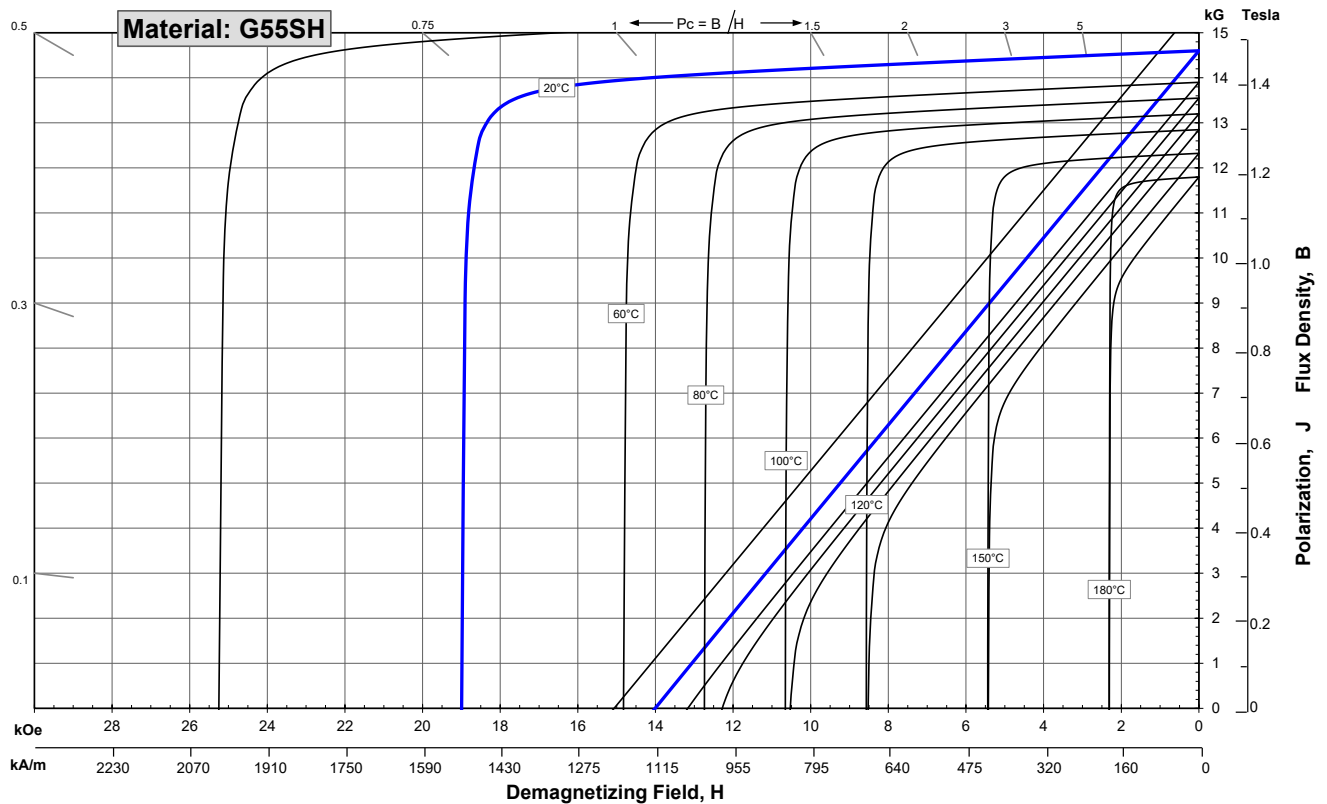
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	14,400	14,600
		mT	1440	1460	1480
H_{cB} , Coercivity		Oersteds	13,600	13,850	14,100
		kA/m	1083	1102	1122
H_{cJ} , Intrinsic Coercivity		Oersteds	19,000		
		kA/m	1,512		
BH_{max} , Maximum Energy Product		MGOe	50	53	55
		kJ/m ³	398	418	438

Thermal Properties	Characteristic	Units	C //	C ⊥
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.55
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7	-1
Other Properties	Thermal Conductivity	kcal/mhr°C	5.3	5.8
	Specific Heat ⁽³⁾	cal/g°C	0.11	
	Curie Temperature, T _c	°C	310	
	Flexural Strength		psi	41,300
		MPa	285	
Density	g/cm ³	7.6		
Hardness, Vickers	Hv	620		
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥		

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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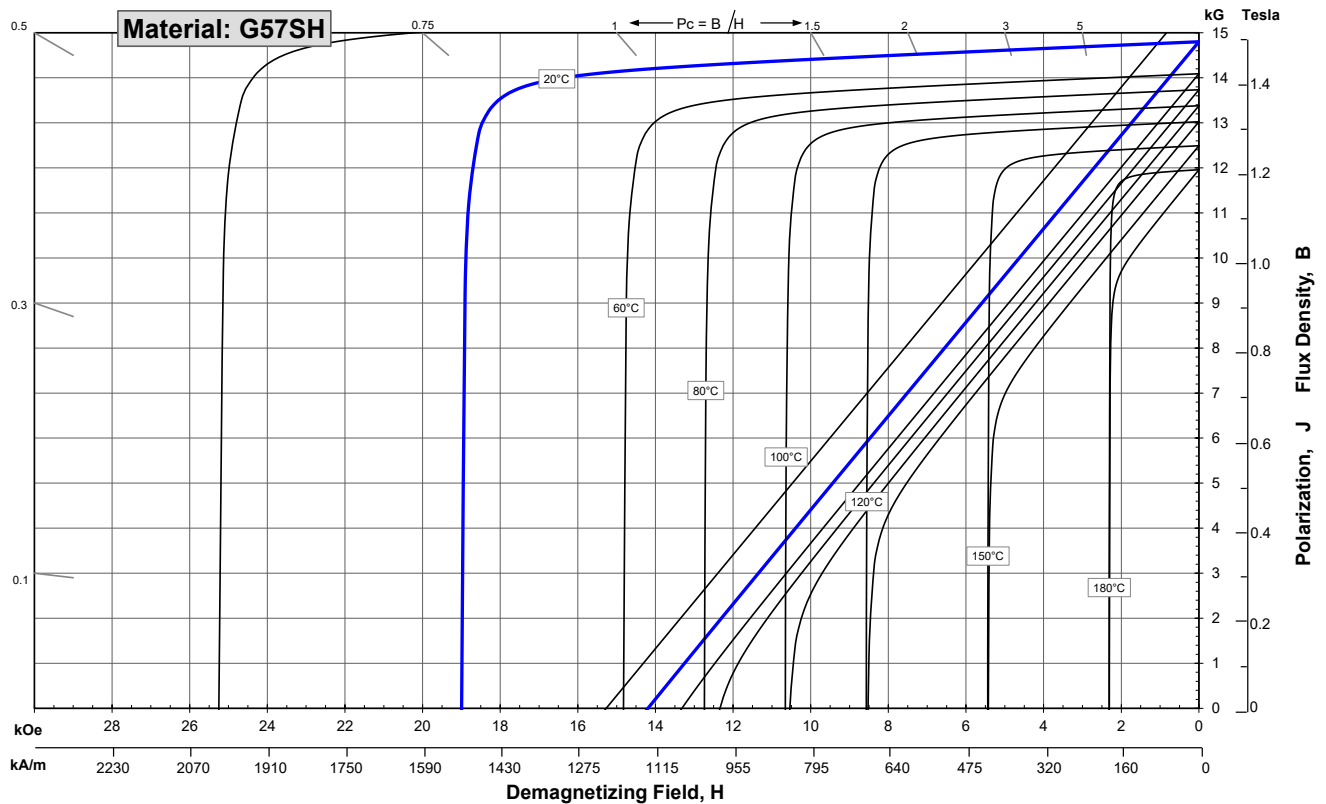
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,600	14,800	15,000
	mT	1460	1480	1500
H_{cB} , Coercivity	Oersteds	13,800	14,050	14,300
	kA/m	1098	1118	1138
H_{cJ} , Intrinsic Coercivity	Oersteds	19,000		
	kA/m	1,512		
BH_{max} , Maximum Energy Product	MGOe	52	26	0
	kJ/m ³	414	207	0

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	8.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	151 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



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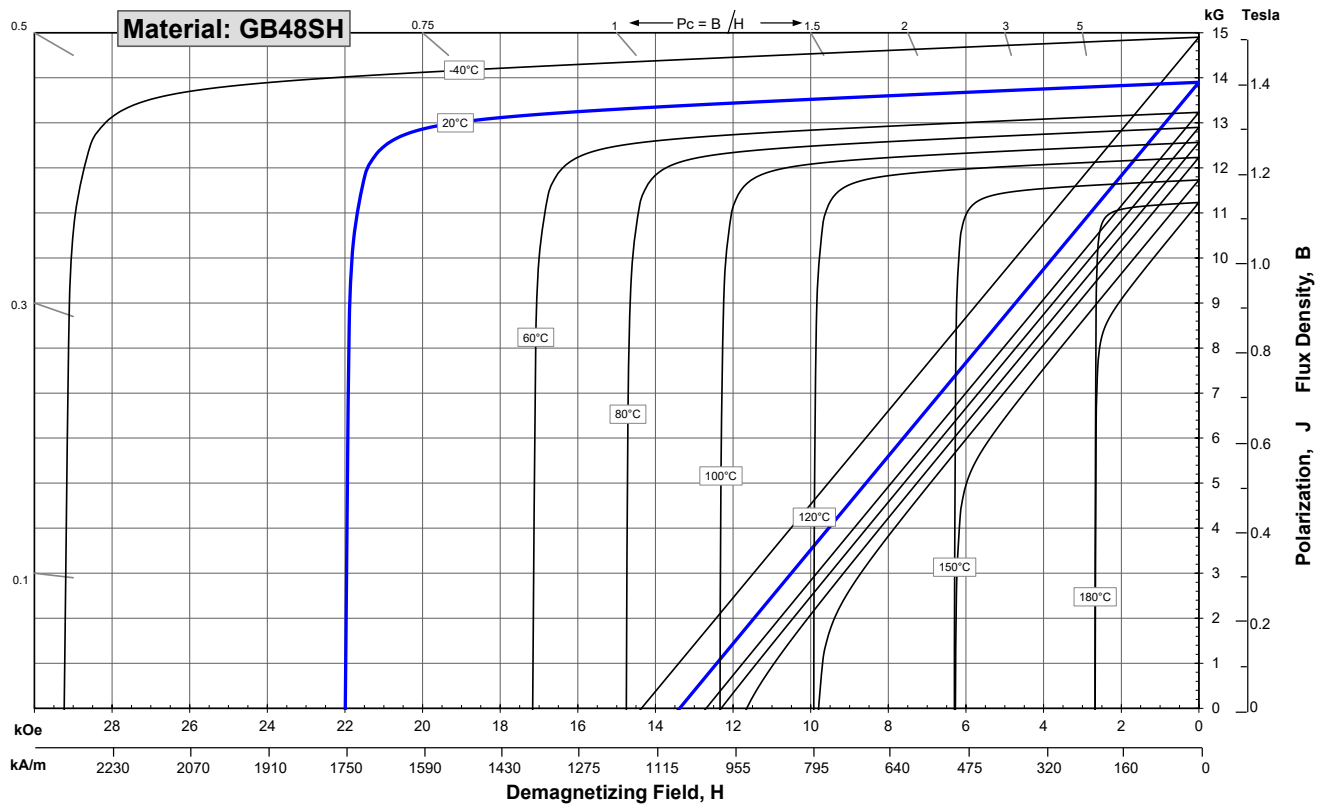
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	22,000		
	kA/m	1,751		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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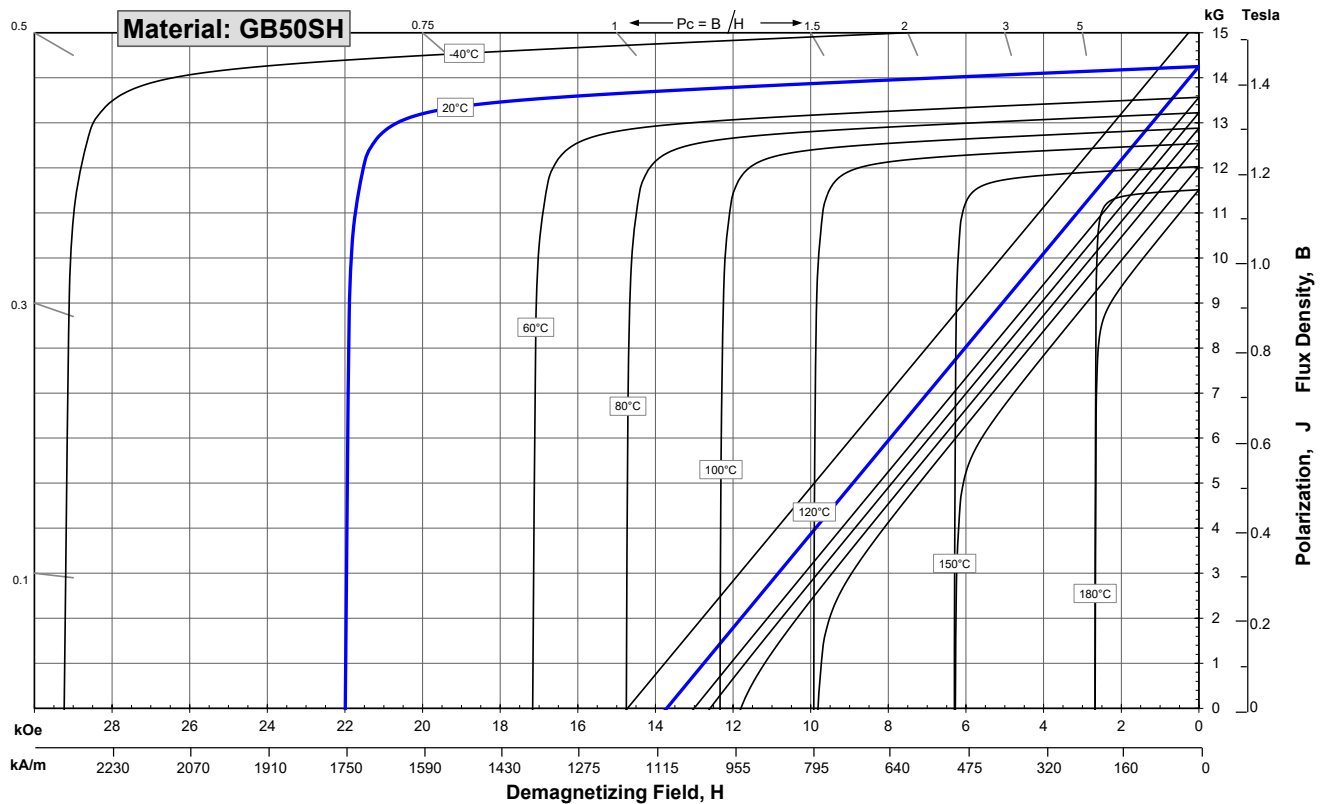
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,900	14,250	14,600
	mT	1390	1425	1460
H_{cB} , Coercivity	Oersteds	10,500	12,250	14,000
	kA/m	836	975	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	22,000		
	kA/m	1,751		
BH_{max} , Maximum Energy Product	MGOe	47	49	51
	kJ/m ³	374	390	406

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



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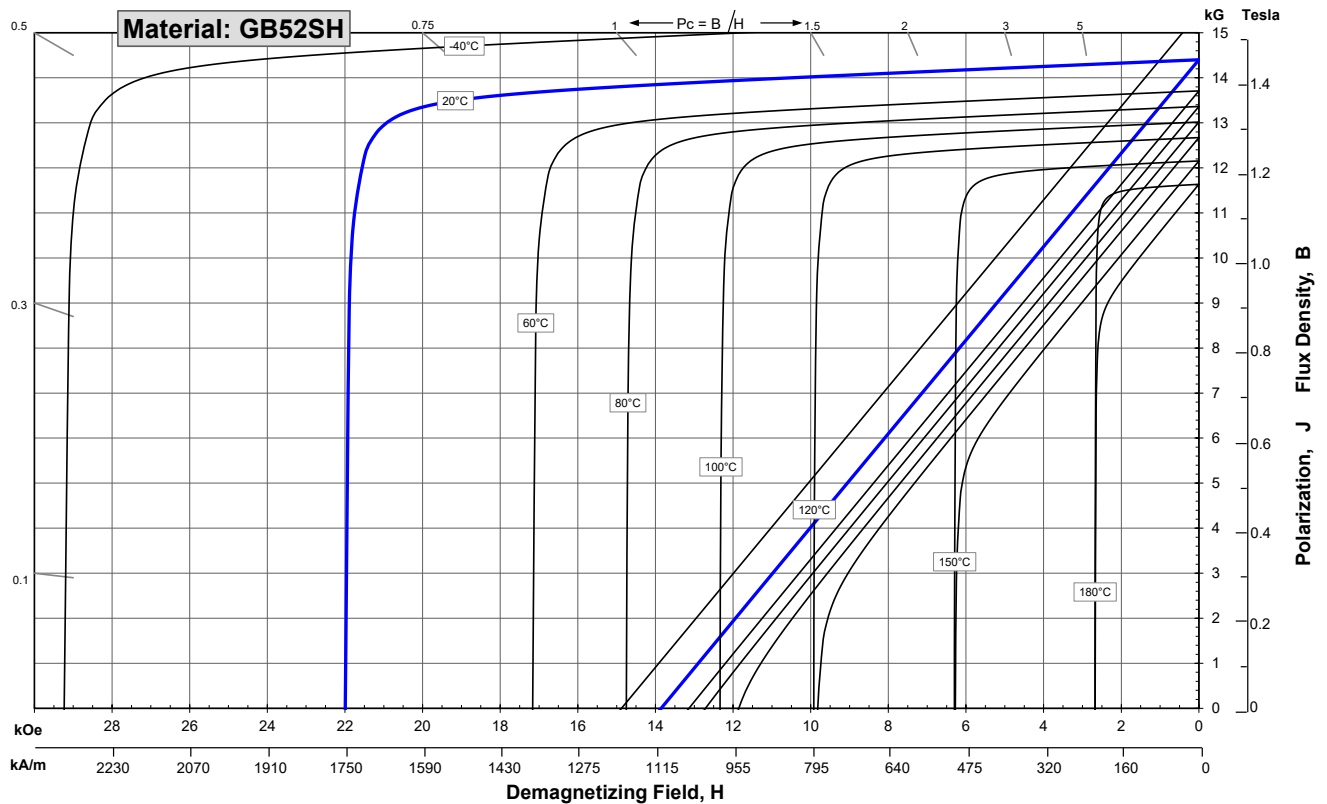
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,200	14,400	14,600
	mT	1420	1440	1460
H_{cB} , Coercivity	Oersteds	13,400	13,700	14,000
	kA/m	1067	1090	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	22,000		
	kA/m	1,751		
BH_{max} , Maximum Energy Product	MGOe	48	51	53
	kJ/m ³	382	402	422

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size.
Demagnetization curves show nominal Br and minimum H_{cj}.
 Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications.
 Additional grades are available. Please contact the factory for information.

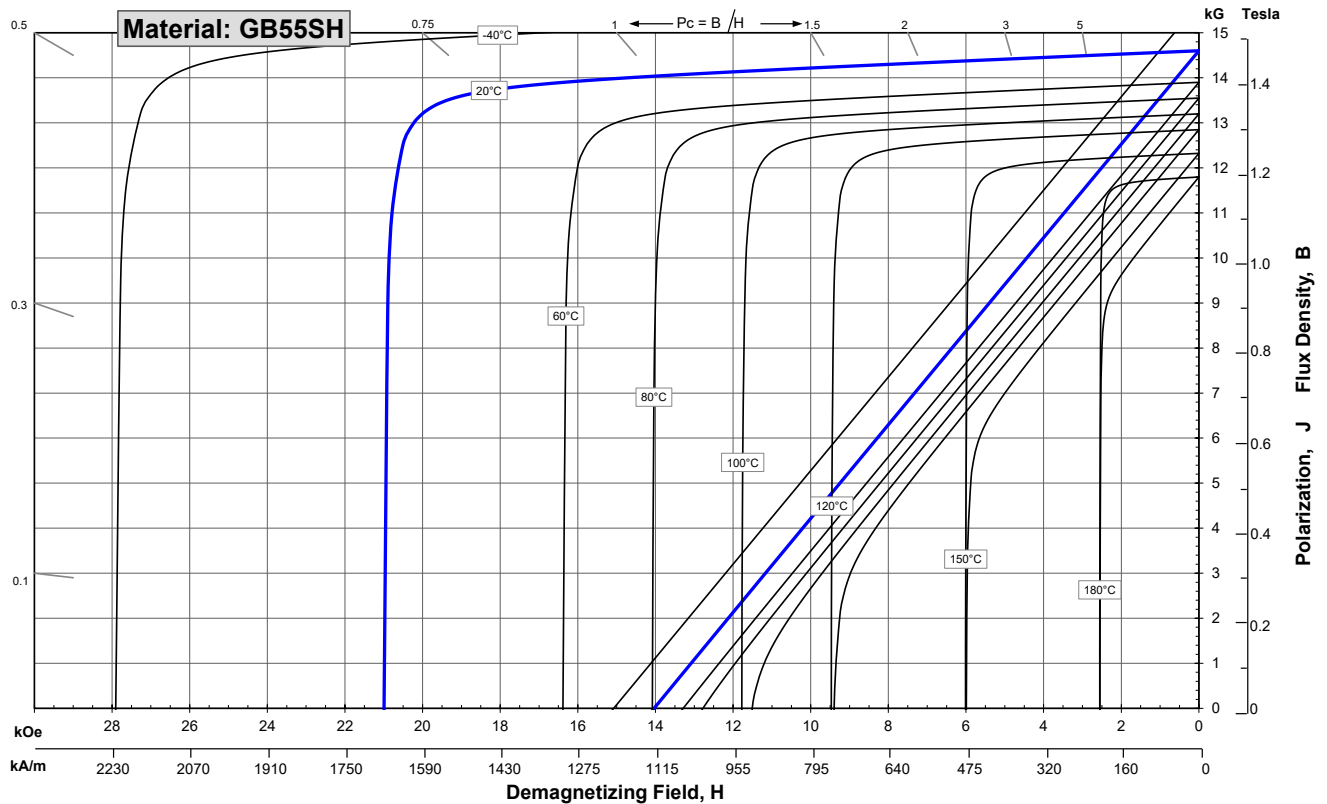
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	14,400	14,600
		mT	1440	1460	1480
H_{cB} , Coercivity		Oersteds	13,600	13,850	14,100
		kA/m	1083	1102	1122
H_{cJ} , Intrinsic Coercivity		Oersteds	21,000		
		kA/m	1,672		
BH_{max} , Maximum Energy Product		MGOe	50	53	55
		kJ/m ³	398	418	438

Thermal Properties	Characteristic	Units	C //	C ⊥
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.55
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7	-1
Other Properties	Thermal Conductivity	kcal/mhr°C	5.3	5.8
	Specific Heat ⁽³⁾	cal/g°C	0.11	
	Curie Temperature, T _c	°C	310	
	Flexural Strength		psi	41,300
		MPa	285	
Density	g/cm ³	7.6		
Hardness, Vickers	Hv	620		
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥		

Notes:
 (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. **Demagnetization curves show nominal Br and minimum Hci.** Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

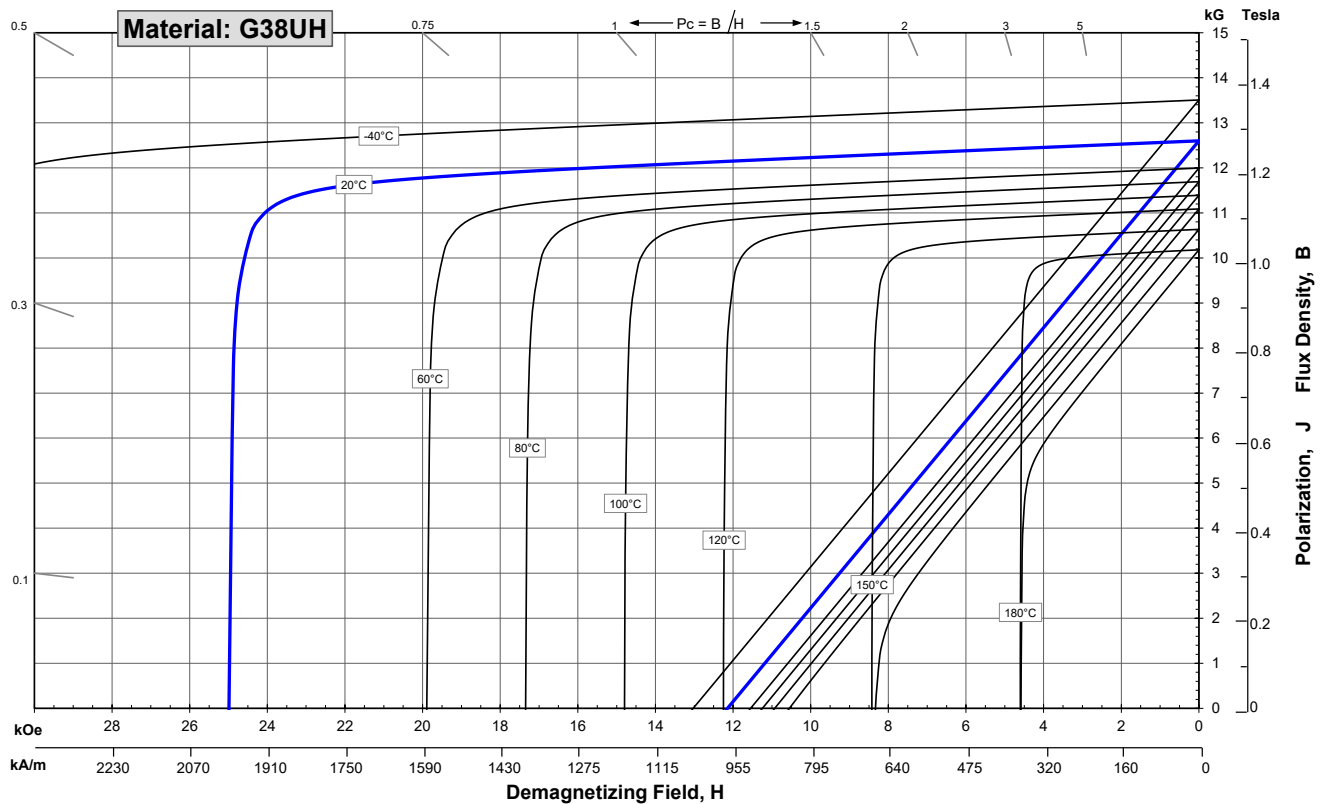
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,200	12,600	13,000
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BHmax , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.51
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size.

Demagnetization curves show nominal Br and minimum Hci.

Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications.

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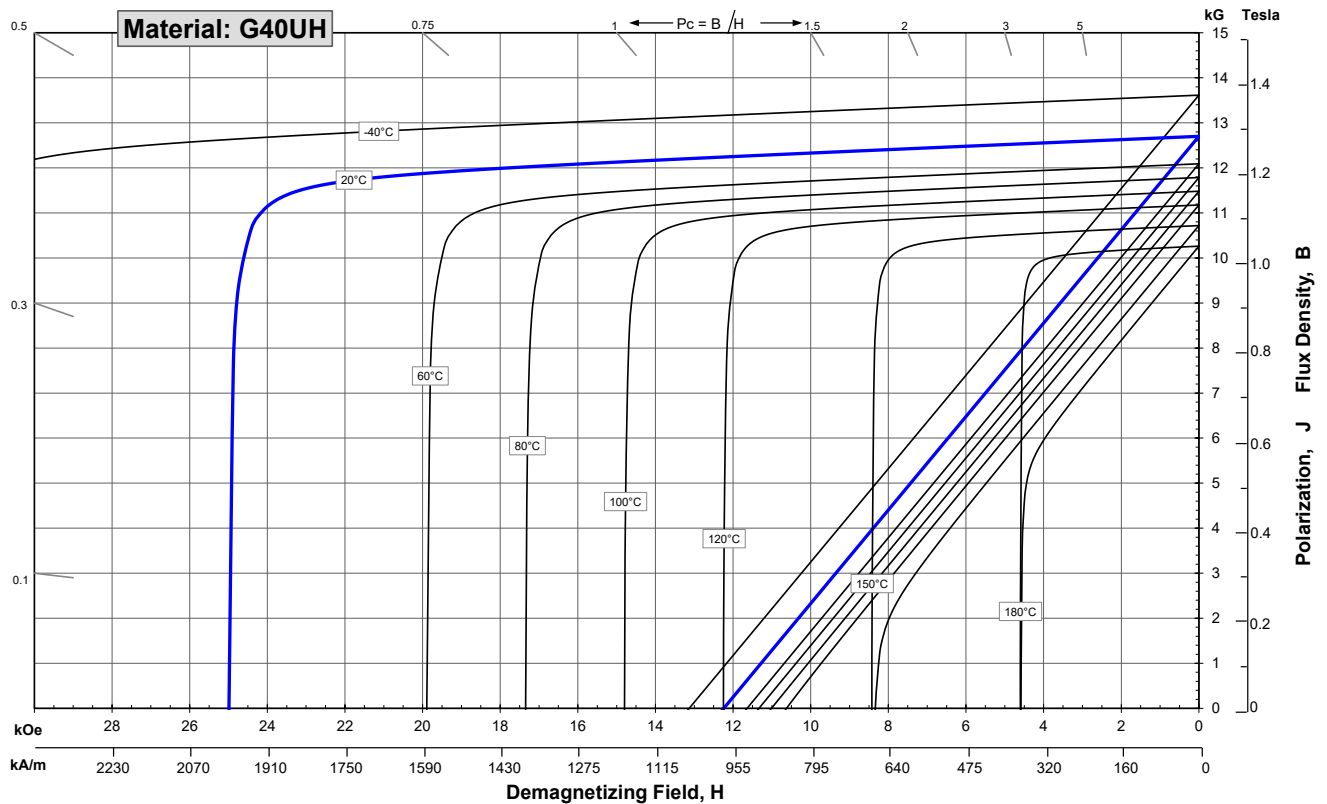
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,700	12,900
	mT	1250	1270	1290
H_{cB} , Coercivity	Oersteds	11,500	11,900	12,300
	kA/m	915	947	979
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.51
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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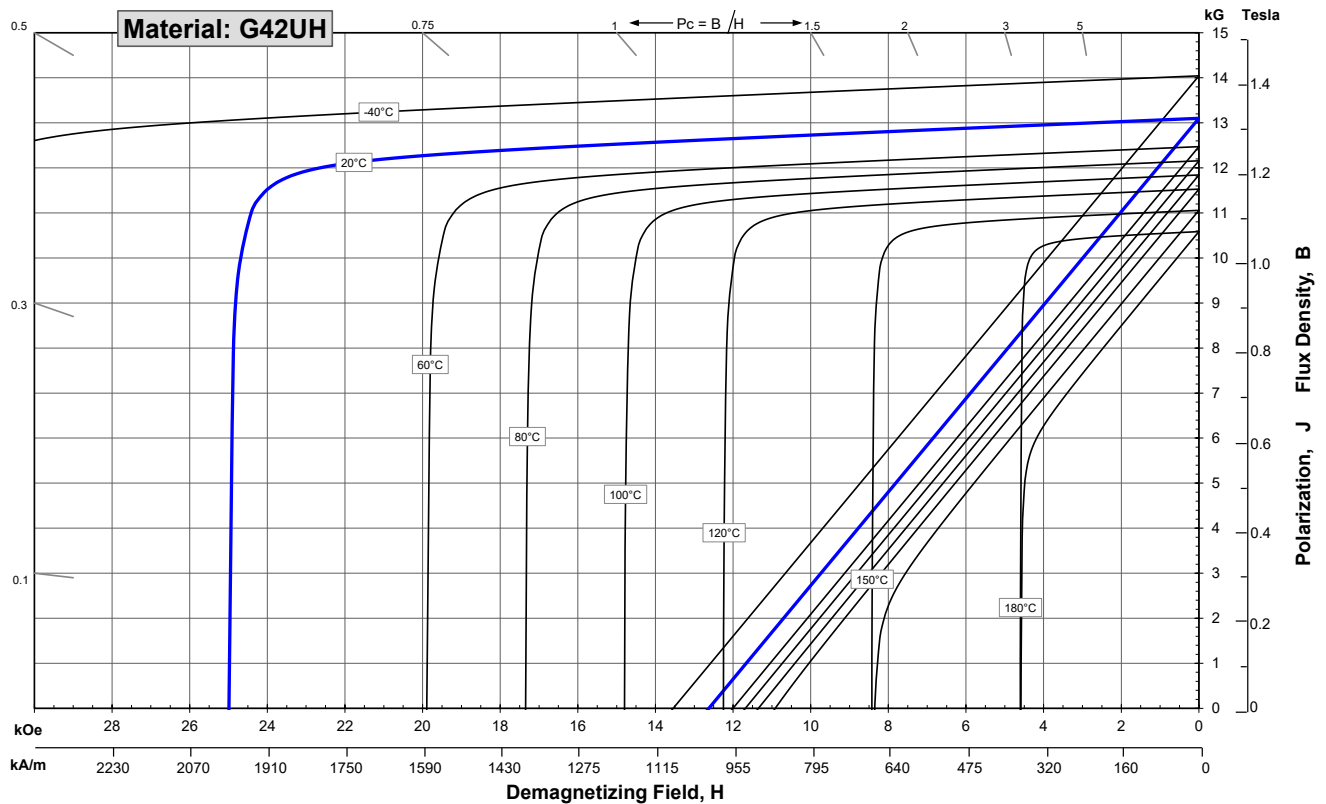
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,800	13,100	13,400
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,000	12,400	12,800
	kA/m	955	987	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.51
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes:
 (1) Coefficients measured between 20 and 180 °C
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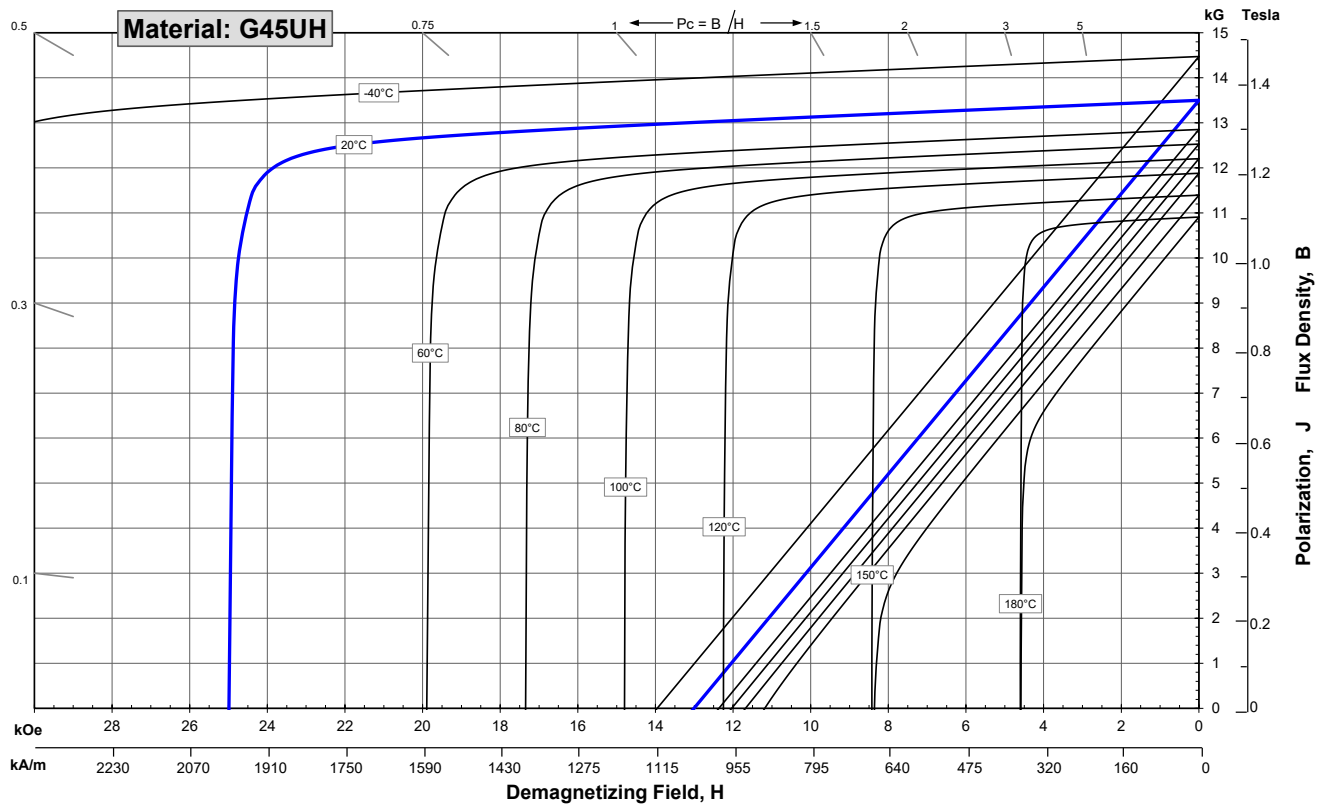
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,200	13,500
		mT	1320	1350	1380
H_{cB} , Coercivity		Oersteds	12,300	12,750	13,200
		kA/m	979	1015	1050
H_{cJ} , Intrinsic Coercivity		Oersteds	25,000		
		kA/m	1,990		
BH_{max} , Maximum Energy Product		MGOe	43	45	46
		kJ/m ³	342	354	366

Thermal Properties	Characteristic	Units	C //	C ⊥
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.51
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7	-1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾		cal/g°C	0.11	
	Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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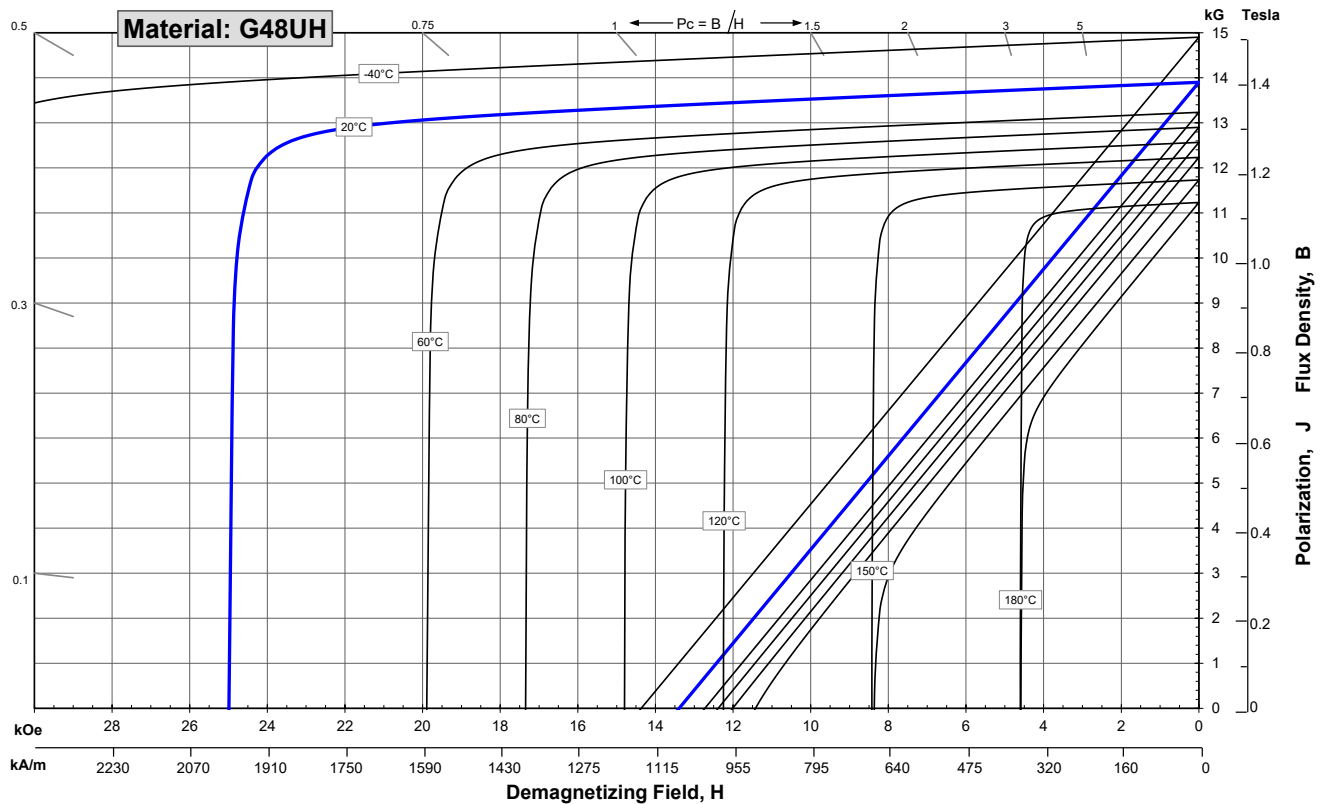
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.51
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
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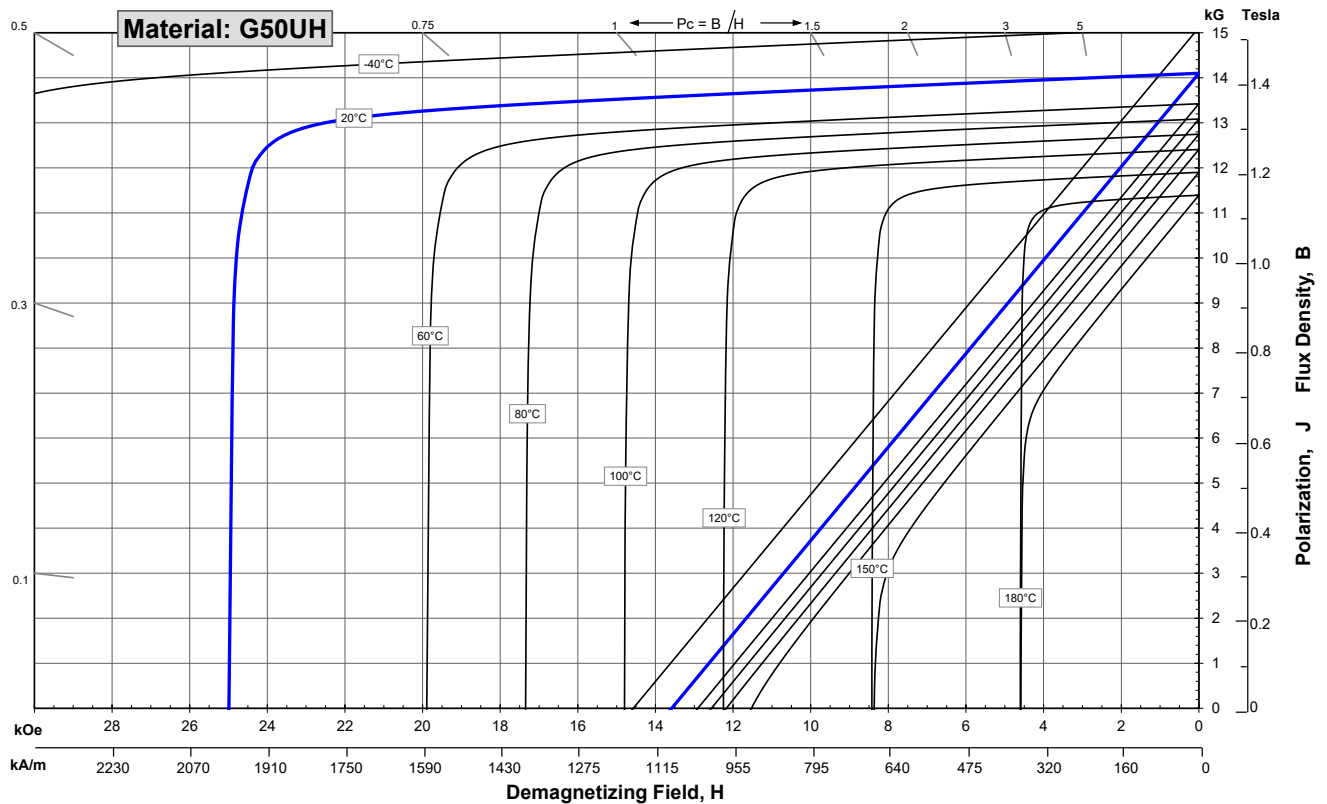
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,900	14,100	14,400
	mT	1390	1410	1440
H_{cB} , Coercivity	Oersteds	13,200	13,500	13,800
	kA/m	1051	1074	1098
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	46	49	51
	kJ/m ³	366	386	406

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.51
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
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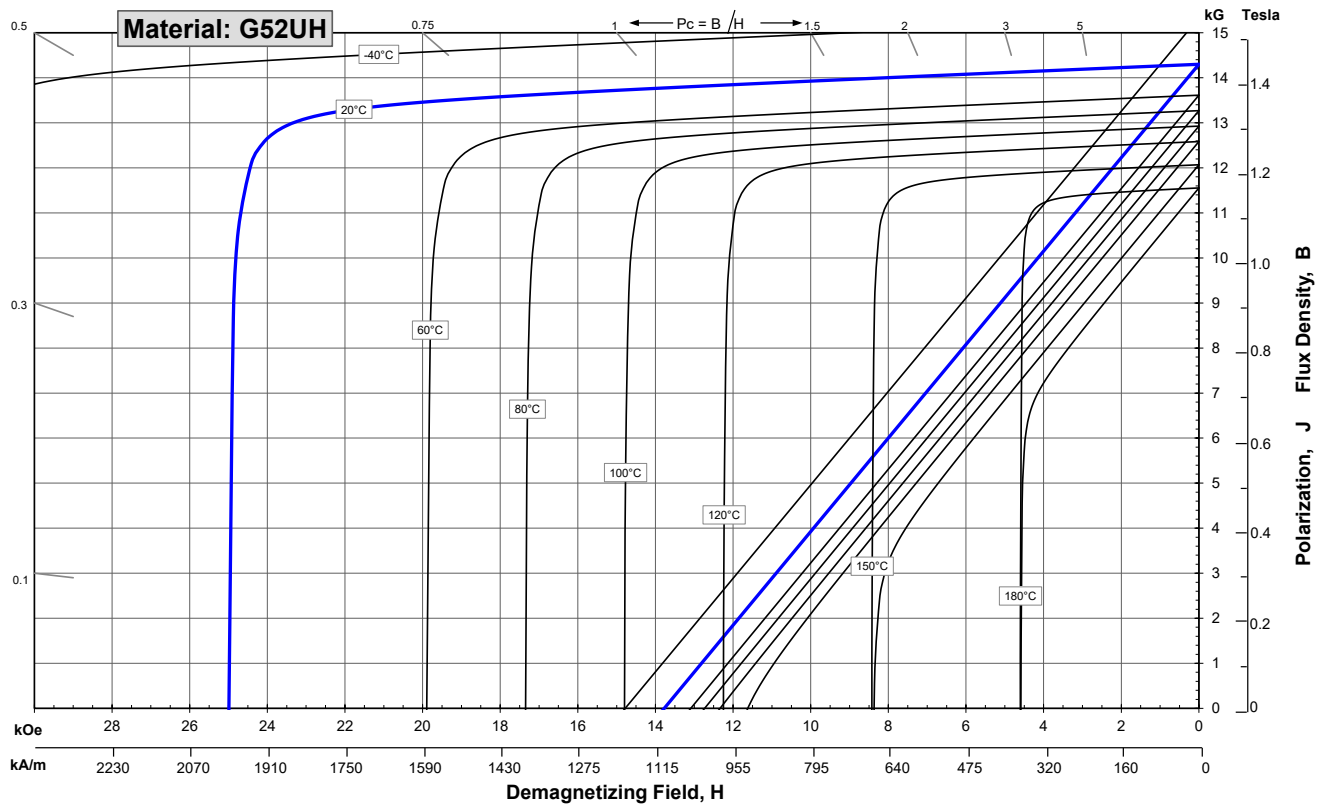
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,100	14,300	14,500
	mT	1410	1430	1450
H_{cB} , Coercivity	Oersteds	13,400	13,650	13,900
	kA/m	1067	1086	1106
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	47	50	52
	kJ/m ³	374	394	414

Characteristic	Units	Thermal Properties		
		C //	C ⊥	
Reversible Temperature Coefficients ⁽¹⁾				
	of Induction, α(Br)	%/°C	-0.12	
	of Coercivity, α(H _{cj})	%/°C	-0.51	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1	
Thermal Conductivity	kcal/mhr°C	5.3	5.8	
Specific Heat ⁽³⁾	cal/g°C	0.11		
Curie Temperature, T _c	°C	310		
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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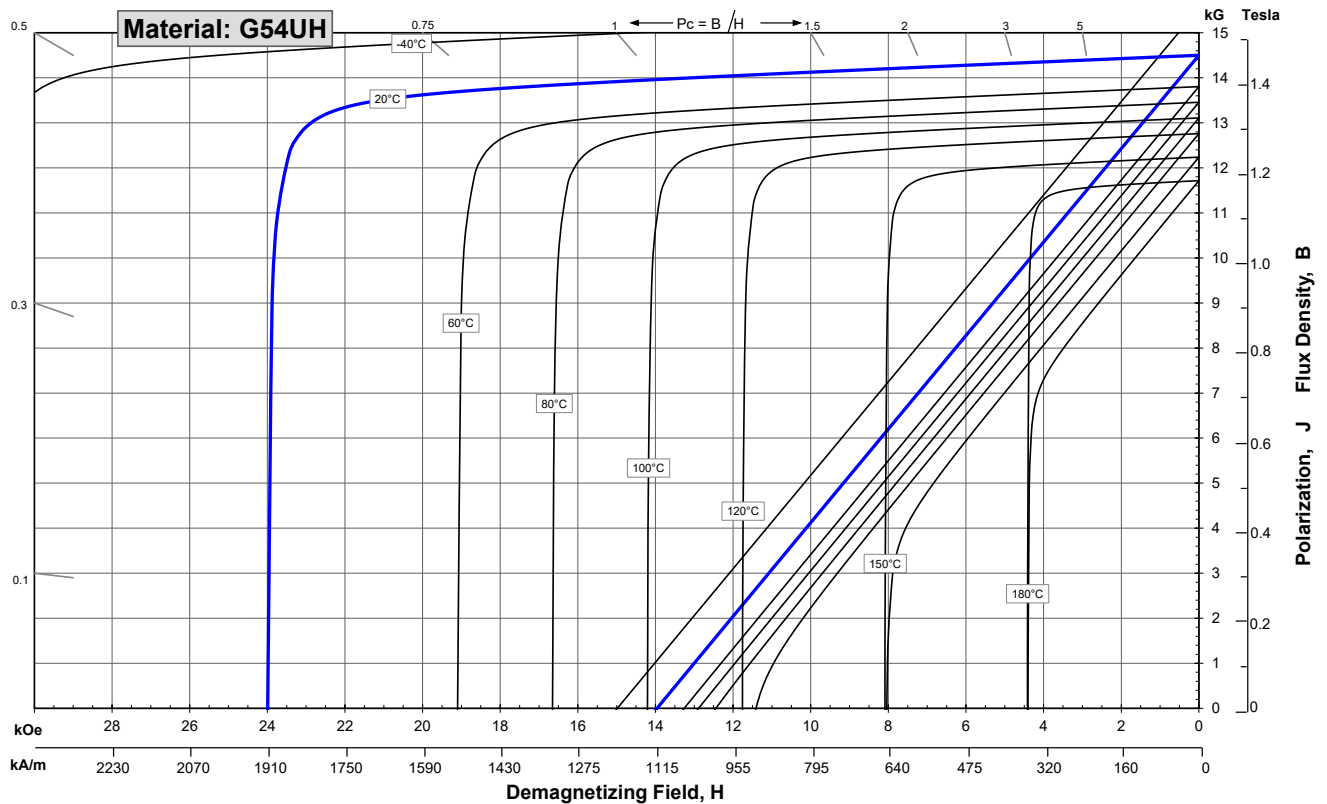
Sintered Neodymium-Iron-Boron Magnets

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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	14,300	14,500
		mT	1430	1450	1470
H_{cB} , Coercivity		Oersteds	13,500	13,750	14,000
		kA/m	1075	1094	1114
H_{cJ} , Intrinsic Coercivity		Oersteds	24,000		
		kA/m	1,910		
BH_{max} , Maximum Energy Product		MGOe	50	53	55
		kJ/m ³	398	418	438

Thermal Properties	Characteristic	Units	C //	C ⊥
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.51
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7	-1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾		cal/g°C	0.11	
Curie Temperature, T _c		°C	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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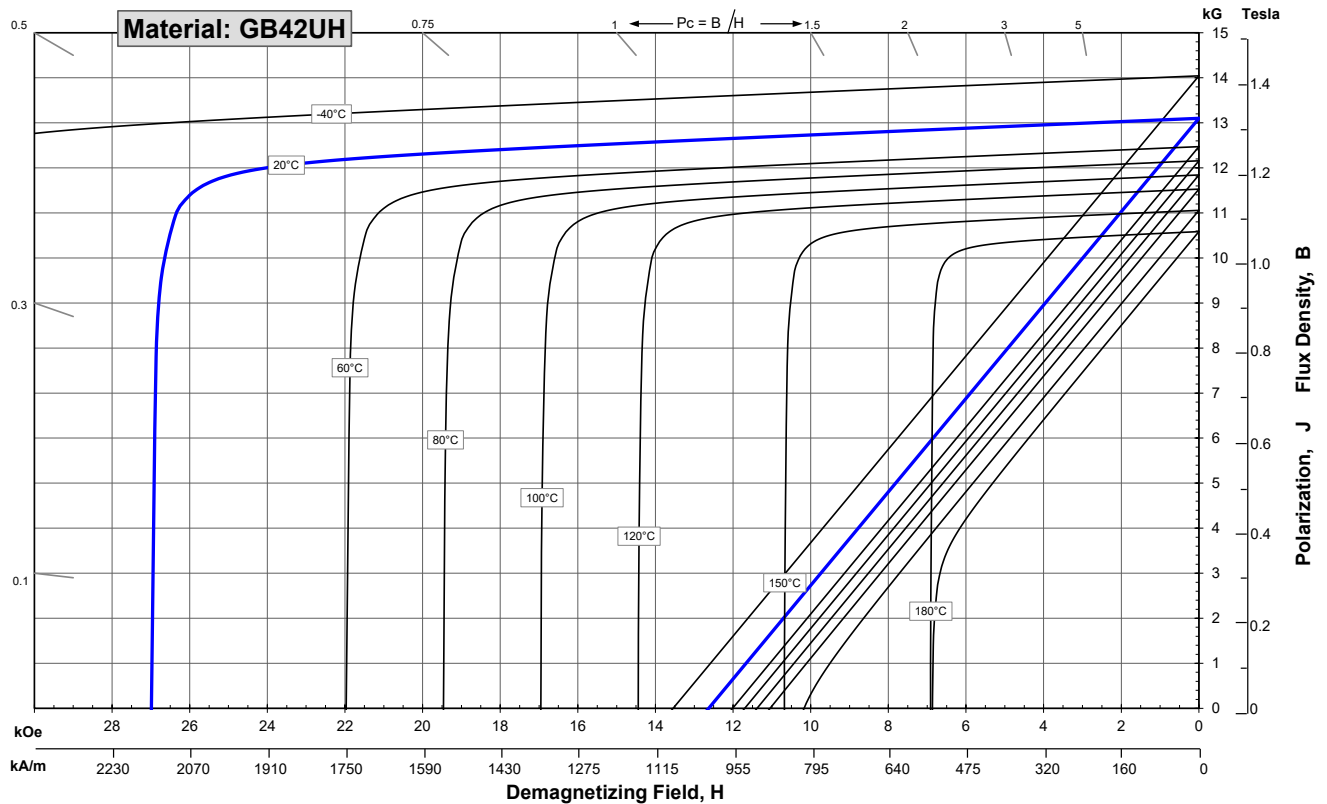
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,800	13,100	13,400
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,000	12,400	12,800
	kA/m	955	987	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,149		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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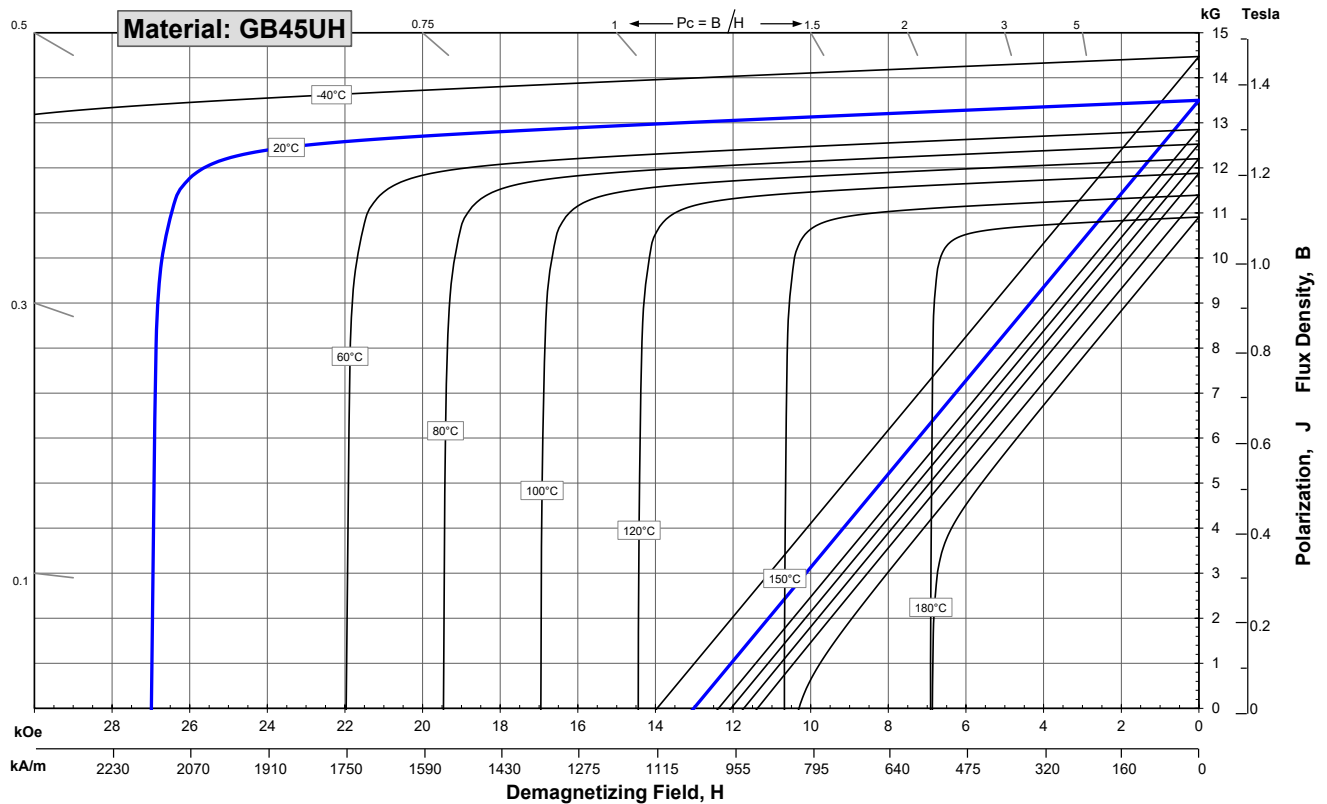
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,200	13,500	13,800
	mT	1320	1350	1380
H_{cB} , Coercivity	Oersteds	12,300	12,750	13,200
	kA/m	979	1015	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,149		
BH_{max} , Maximum Energy Product	MGOe	43	45	46
	kJ/m ³	342	354	366

Characteristic	Units	Thermal Properties		
		C //	C ⊥	
Reversible Temperature Coefficients ⁽¹⁾				
	of Induction, α(Br)	%/°C	-0.12	
	of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1	
Thermal Conductivity	kcal/mhr°C	5.3	5.8	
Specific Heat ⁽³⁾	cal/g°C	0.11		
Curie Temperature, T _c	°C	310		
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
(2) Between 20 and 200 °C. Values are typical and can vary.
(3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. **Demagnetization curves show nominal Br and minimum Hci.** Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

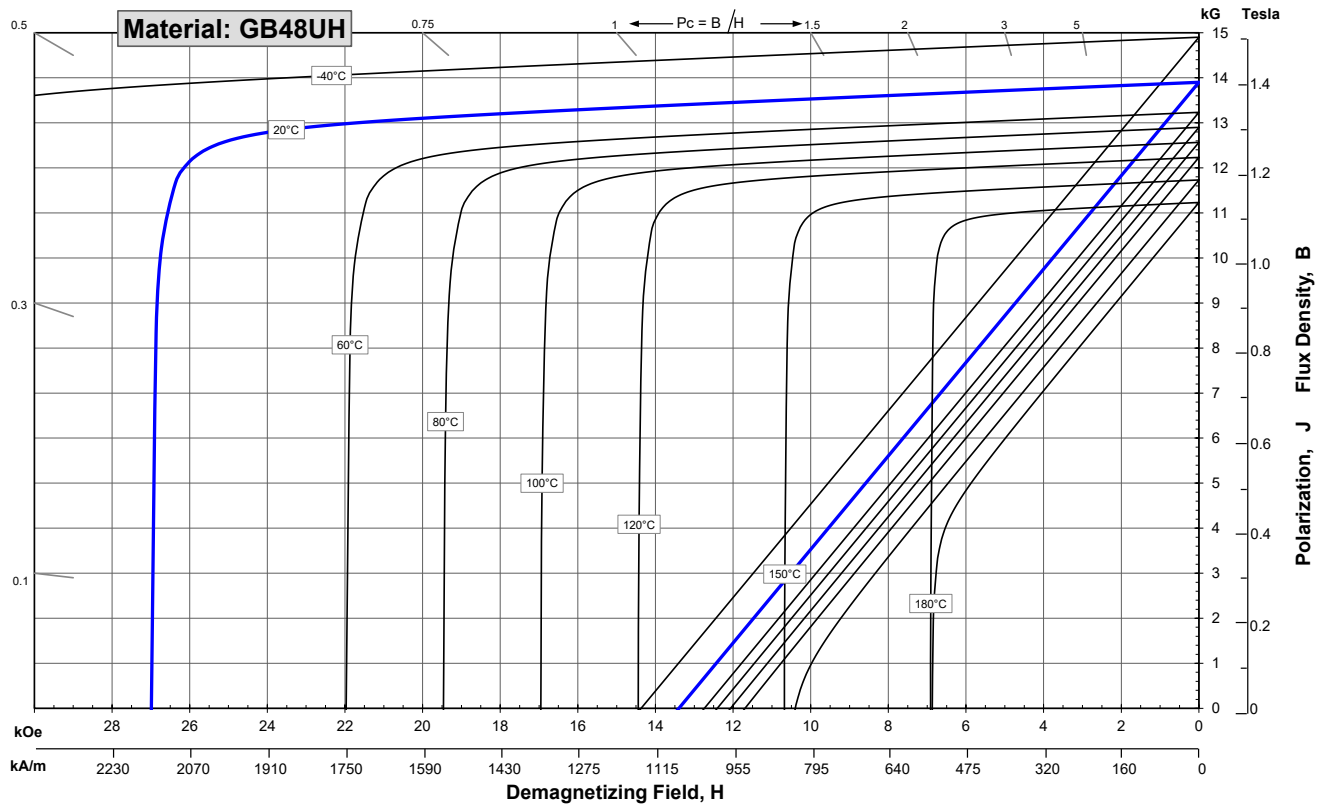
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,419		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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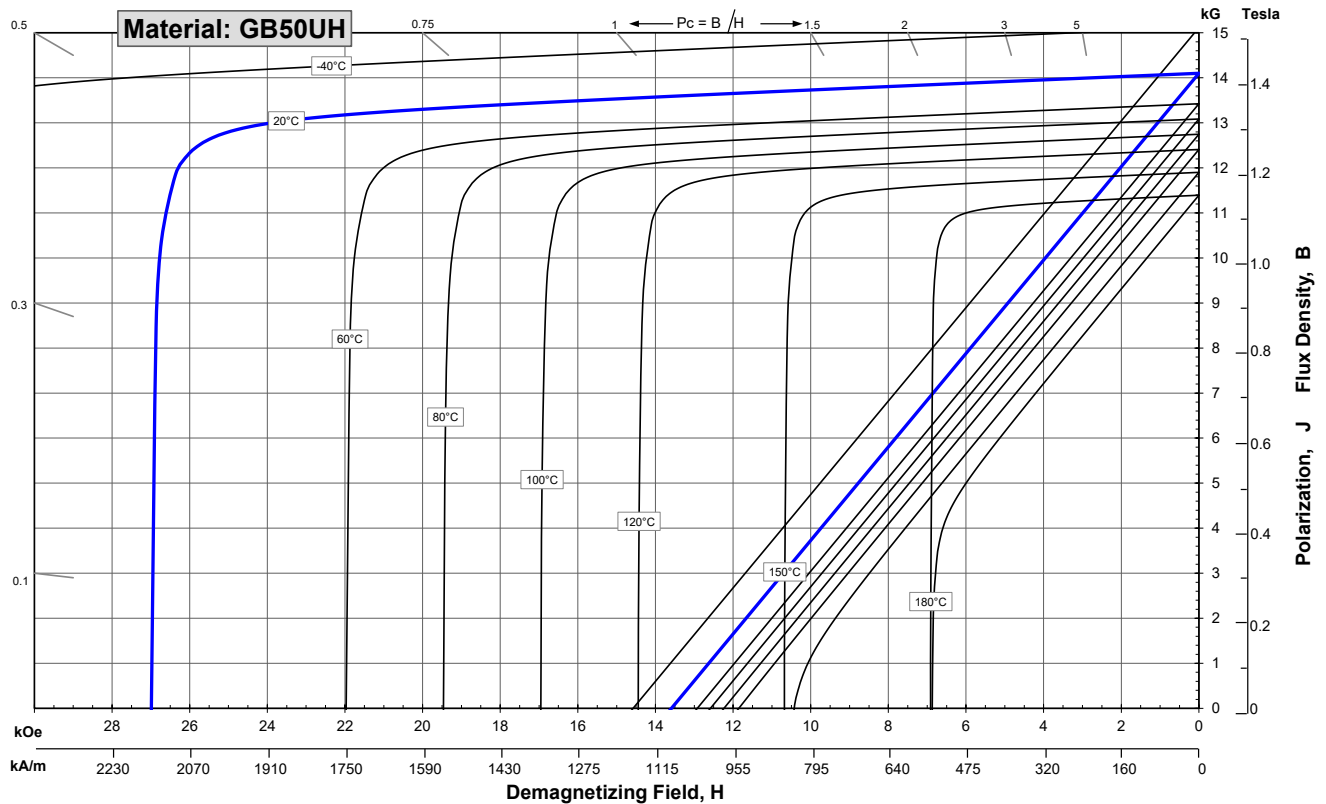
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,900	14,100	14,400
	mT	1390	1410	1440
H_{cB} , Coercivity	Oersteds	13,200	13,500	13,800
	kA/m	1051	1074	1098
H_{cJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,449		
BH_{max} , Maximum Energy Product	MGOe	46	49	51
	kJ/m ³	366	386	406

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cJ})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
(2) Between 20 and 200 °C. Values are typical and can vary.
(3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. **Demagnetization curves show nominal Br and minimum H_{cI}.** Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

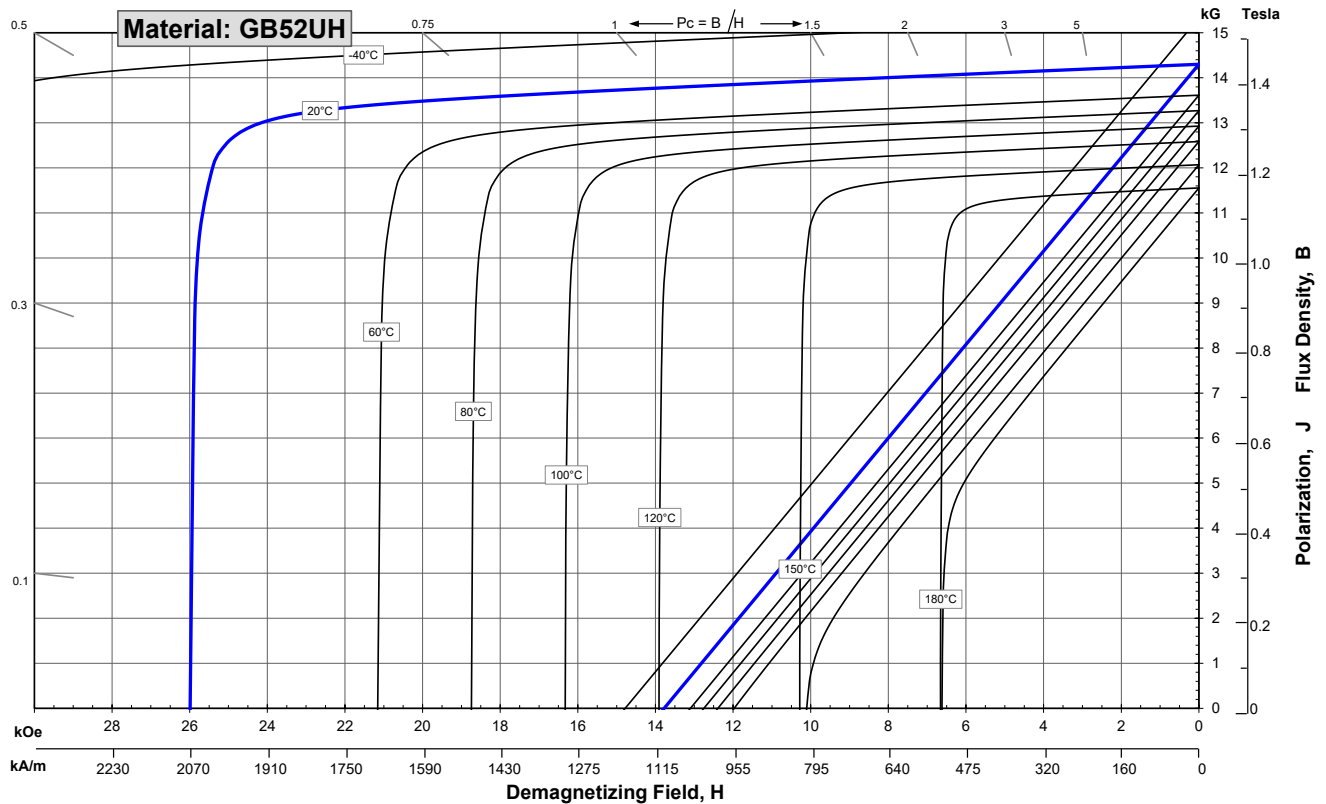
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	14,100	14,300
		mT	1410	1430	1450
H_{cB} , Coercivity		Oersteds	13,400	13,650	13,900
		kA/m	1067	1086	1106
H_{cJ} , Intrinsic Coercivity		Oersteds	26,000		
		kA/m	2,070		
BHmax , Maximum Energy Product		MGOe	47	50	52
		kJ/m ³	374	394	414

Thermal Properties	Characteristic	Units	C //	C ⊥
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7	-1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾		cal/g°C	0.11	
Curie Temperature, T _c		°C	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	151 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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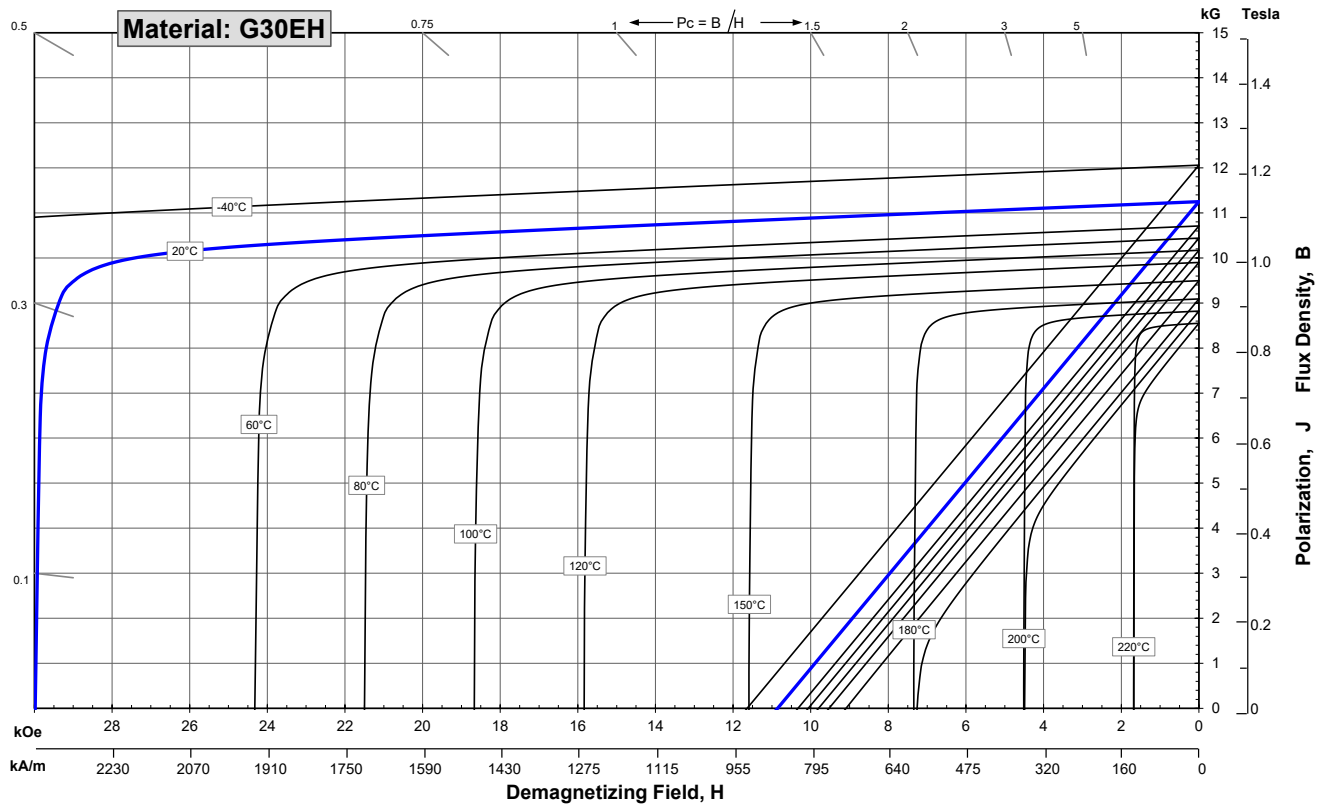
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	10,800	11,250	11,700
	mT	1080	1125	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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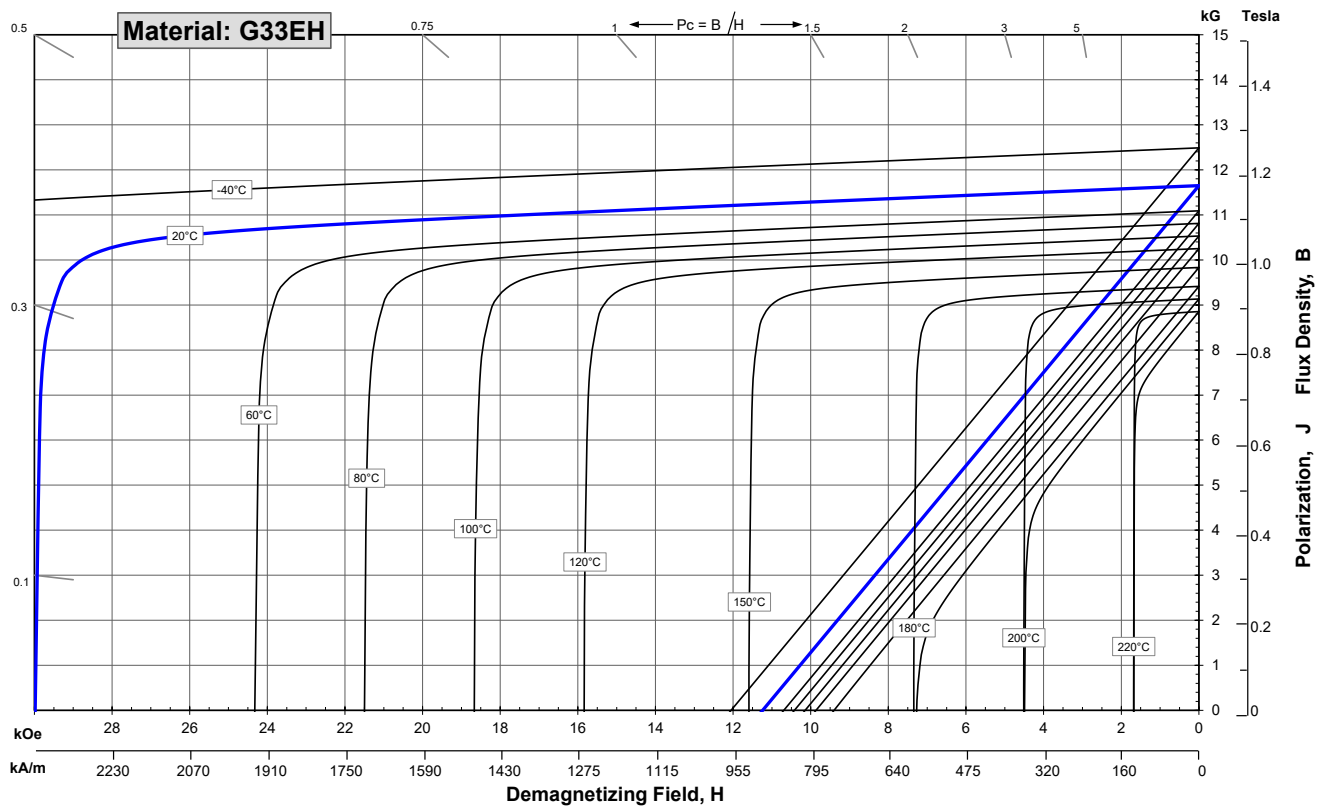
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,650	12,000
	mT	1130	1165	1200
H_{cB} , Coercivity	Oersteds	10,300	10,900	11,500
	kA/m	820	867	915
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BHmax , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes:
 (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. **Demagnetization curves show nominal Br and minimum H_{cj}.** Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

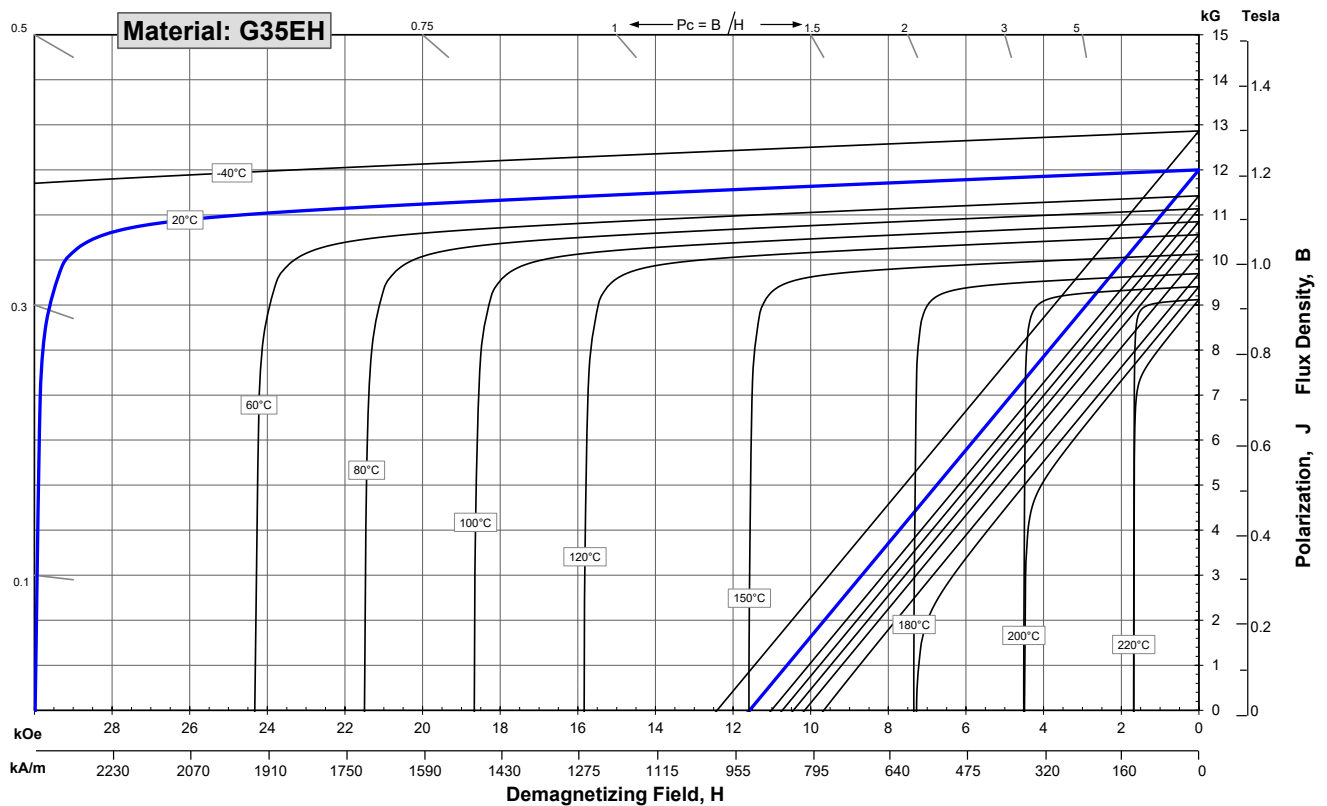
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,700	12,000	12,300
	mT	1170	1200	1230
H_{cB} , Coercivity	Oersteds	10,500	11,150	11,800
	kA/m	836	887	939
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BHmax , Maximum Energy Product	MGOe	33	35	37
	kJ/m ³	263	279	295

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size.
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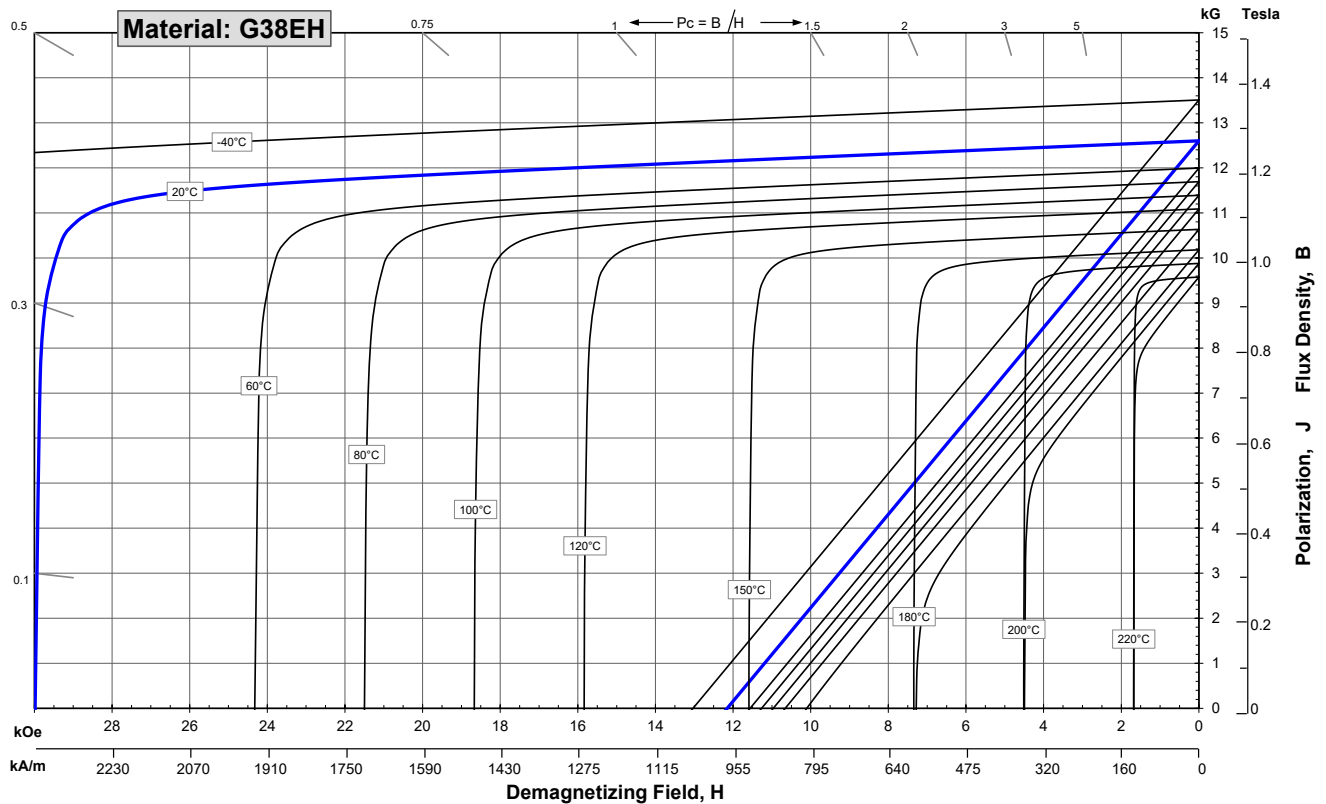
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,200	12,600	13,000
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 200 °C
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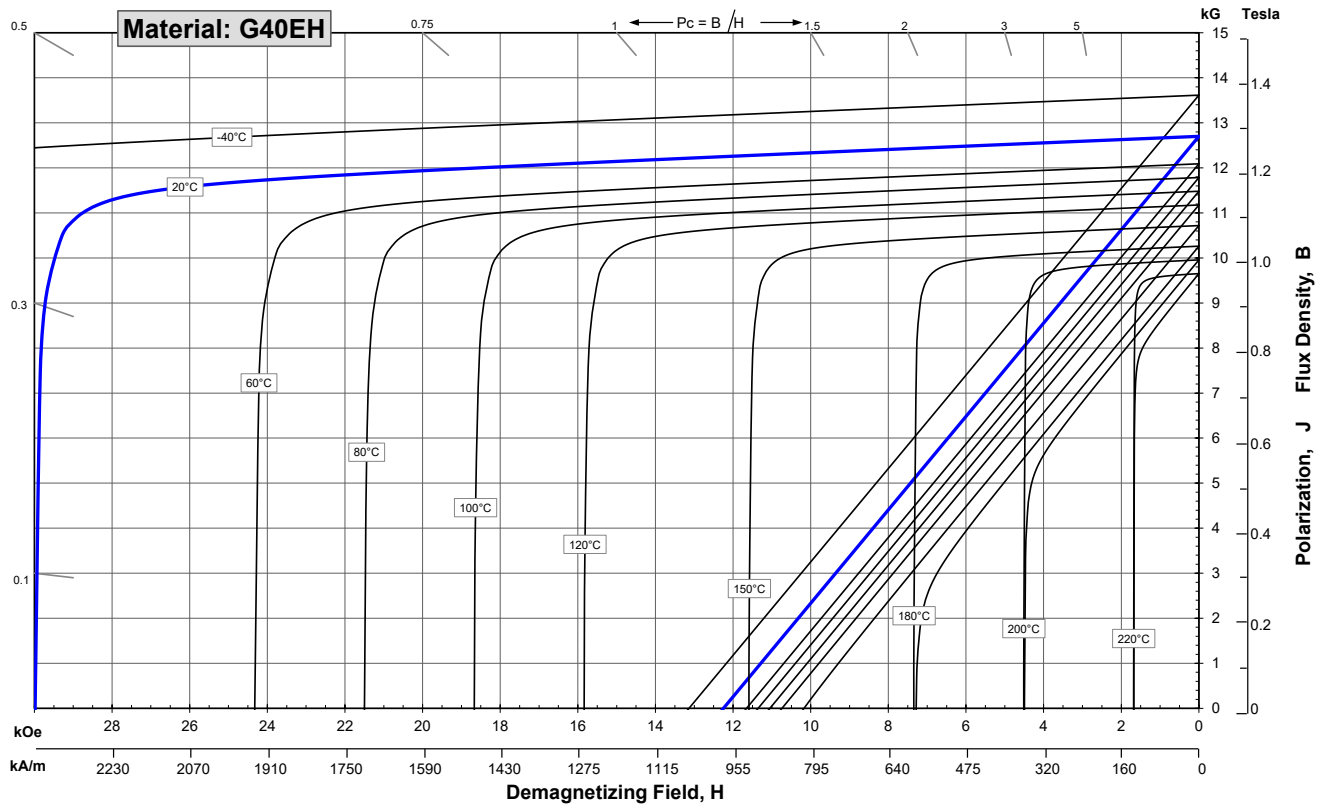
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,700	12,900
	mT	1250	1270	1290
H_{cB} , Coercivity	Oersteds	11,500	11,900	12,300
	kA/m	915	947	979
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BHmax , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
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 (3) Between 20 and 140 °C



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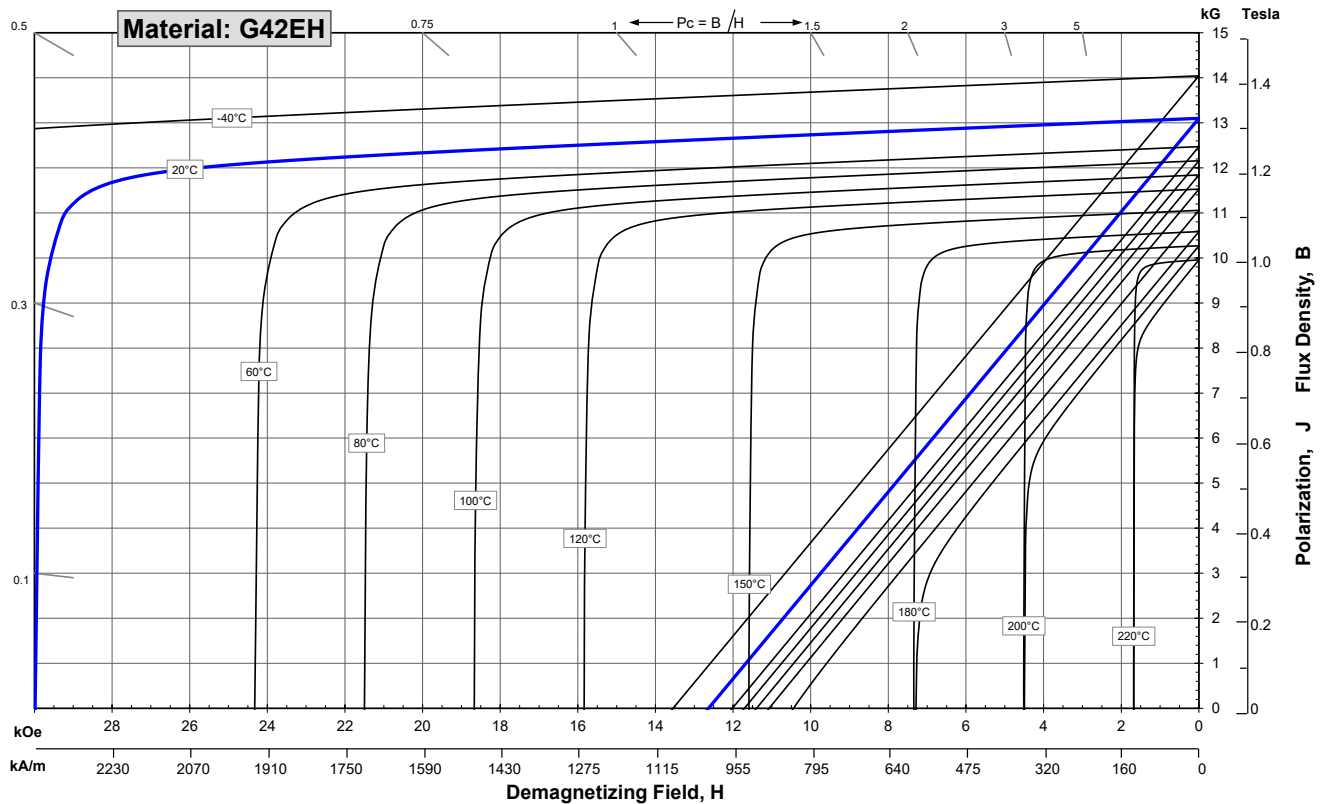
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,800	13,100	13,400
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,000	12,400	12,800
	kA/m	955	987	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
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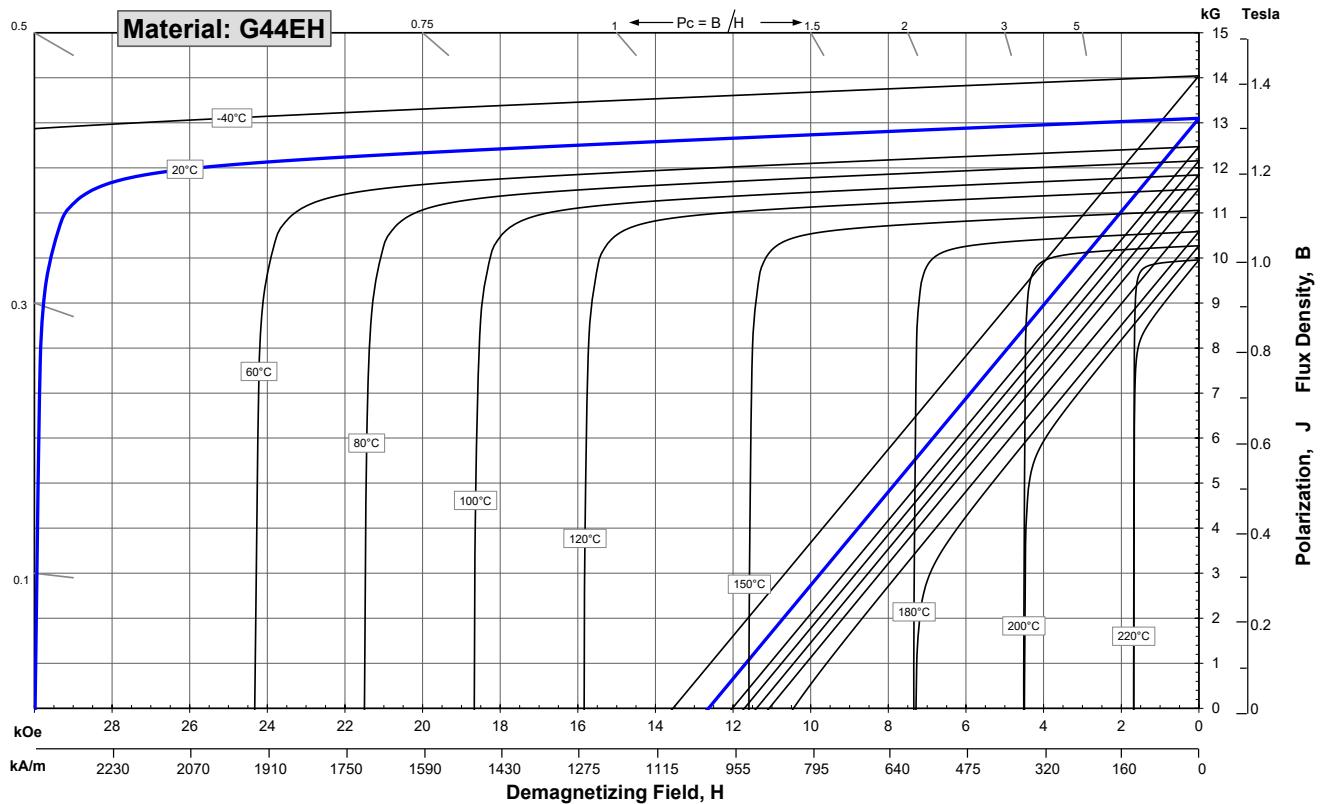
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,900	13,100	13,400
	mT	1290	1310	1340
H_{cB} , Coercivity	Oersteds	12,200	12,500	12,800
	kA/m	971	995	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	40	43	45
	kJ/m ³	318	338	358

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength		psi	41,300
		MPa	285
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
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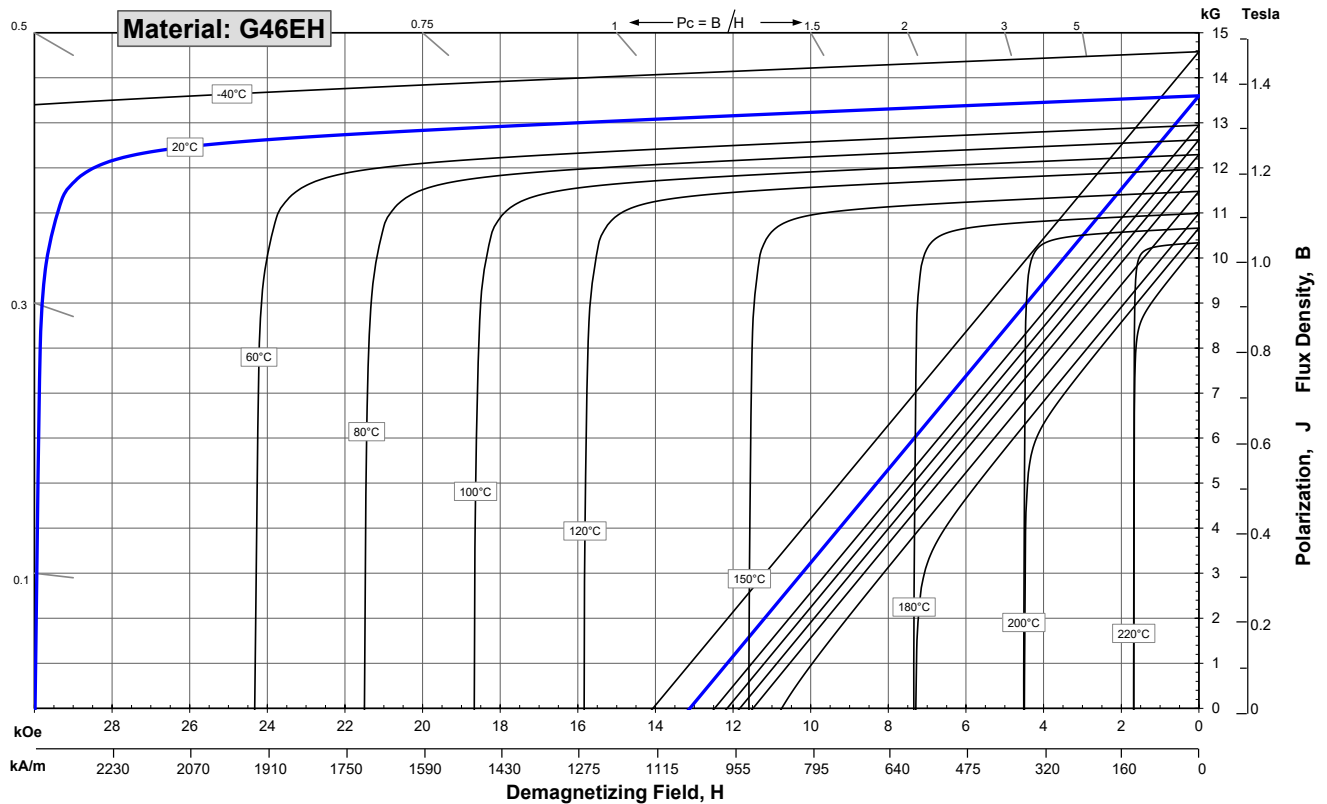
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,400	13,600	13,800
	mT	1340	1360	1380
H_{cB} , Coercivity	Oersteds	12,700	12,950	13,200
	kA/m	1011	1031	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	43	46	48
	kJ/m ³	342	362	382

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. **Demagnetization curves show nominal Br and minimum H_{cj}.** Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

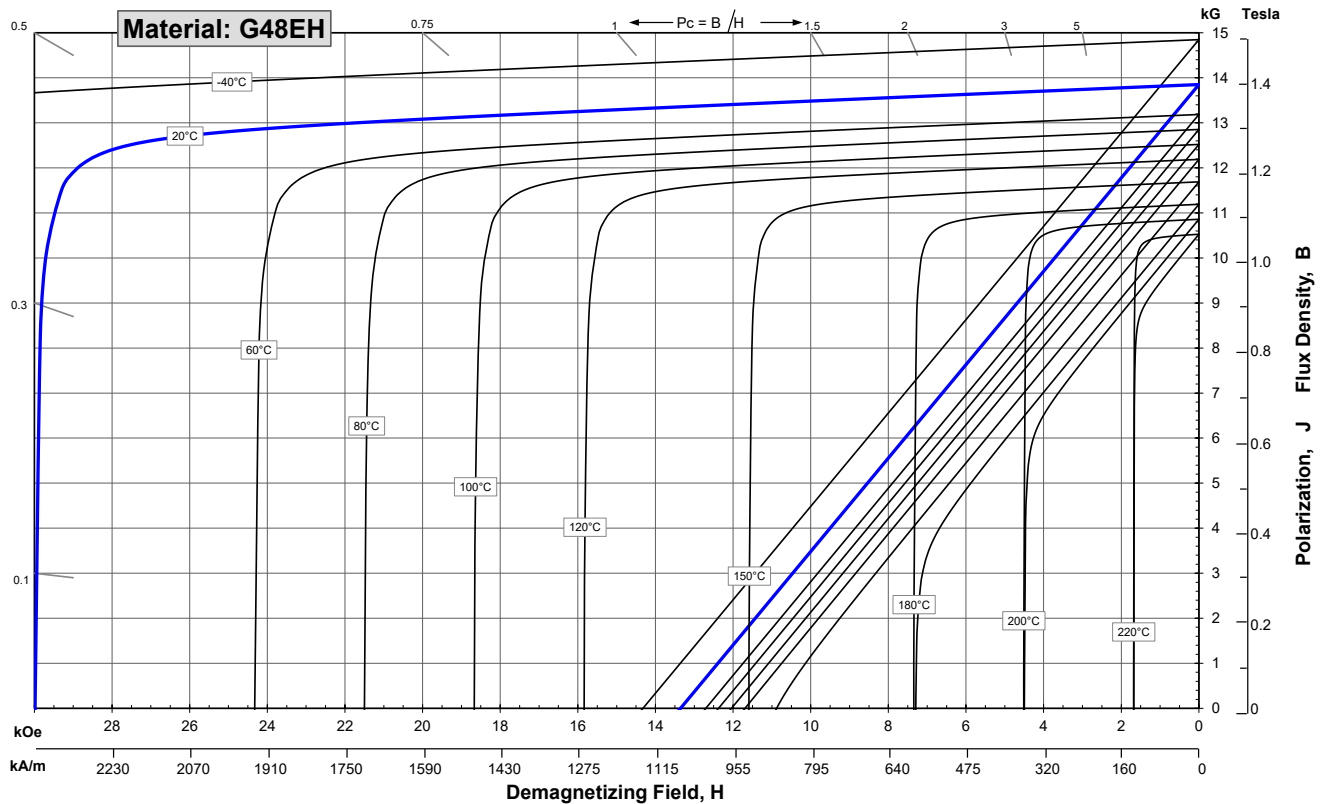
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,850	14,100
	mT	1360	1385	1410
H_{cB} , Coercivity	Oersteds	12,900	13,200	13,500
	kA/m	1027	1050	1074
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	44	47	49
	kJ/m ³	350	370	390

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. **Demagnetization curves show nominal Br and minimum H_{cj}.** Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

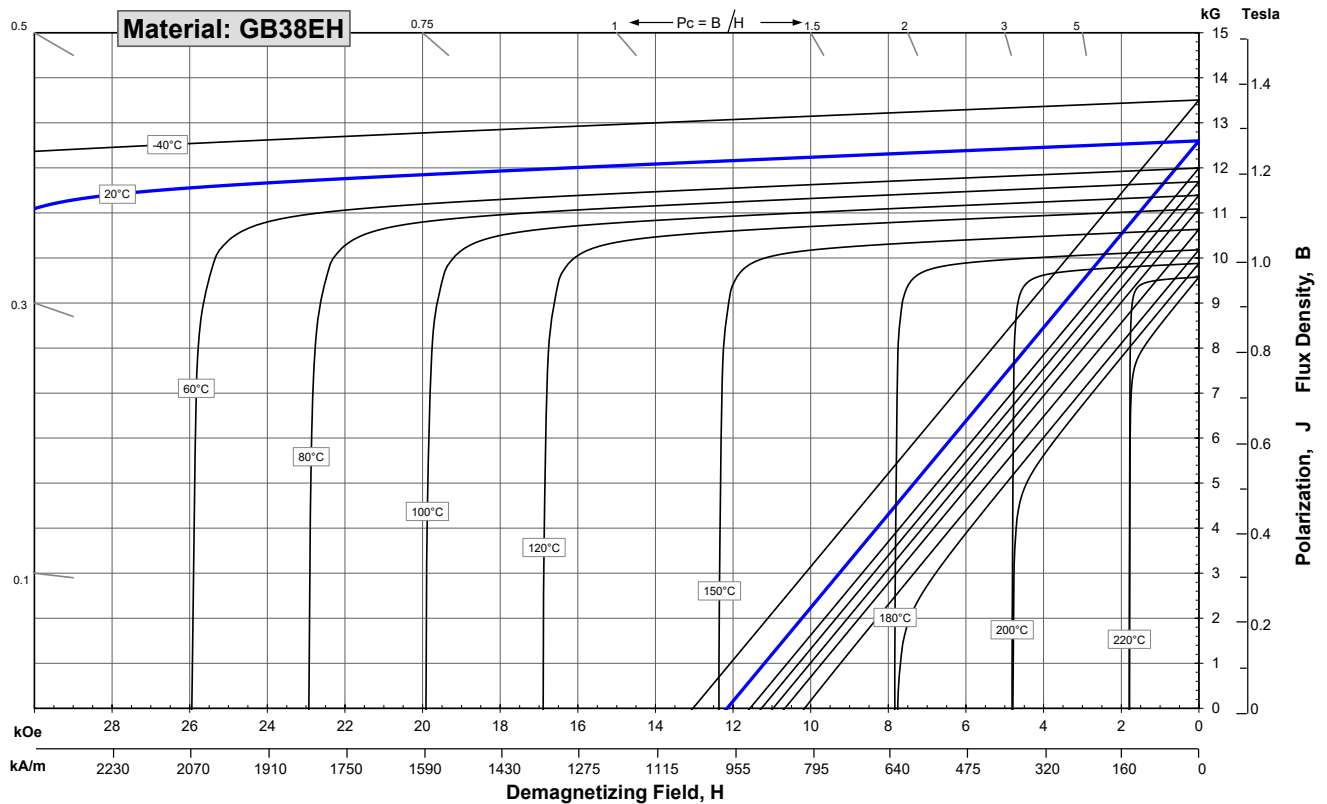
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,200	12,600	13,000
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	32,000		
	kA/m	2,547		
BHmax , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes:
 (1) Coefficients measured between 20 and 200 °C
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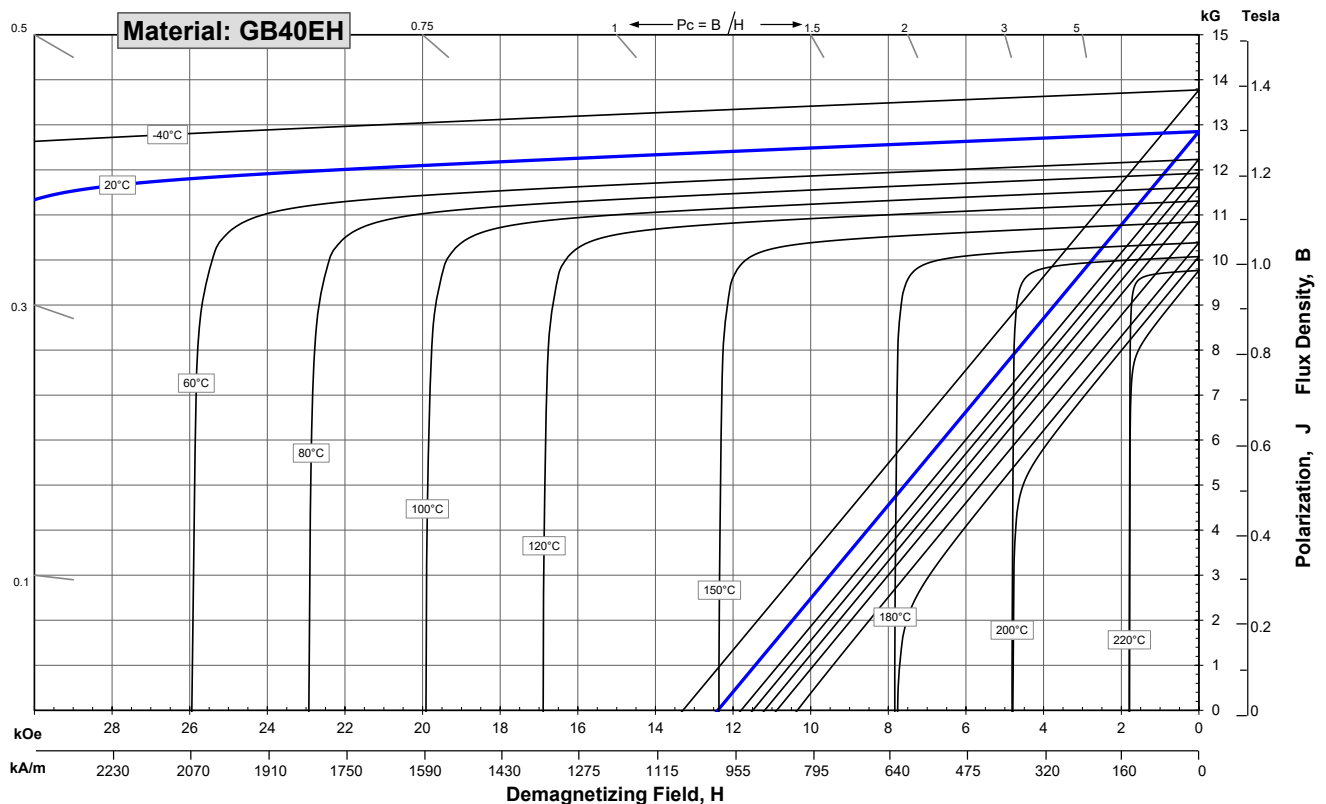
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,850	13,200
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,500	12,050	12,600
	kA/m	915	959	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	32,000		
	kA/m	2,547		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties		
		C //	C ⊥	
Reversible Temperature Coefficients ⁽¹⁾				
	of Induction, α(Br)	%/°C	-0.12	
	of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1	
Thermal Conductivity	kcal/mhr°C	5.3	5.8	
Specific Heat ⁽³⁾	cal/g°C	0.11		
Curie Temperature, T _c	°C	310		
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
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1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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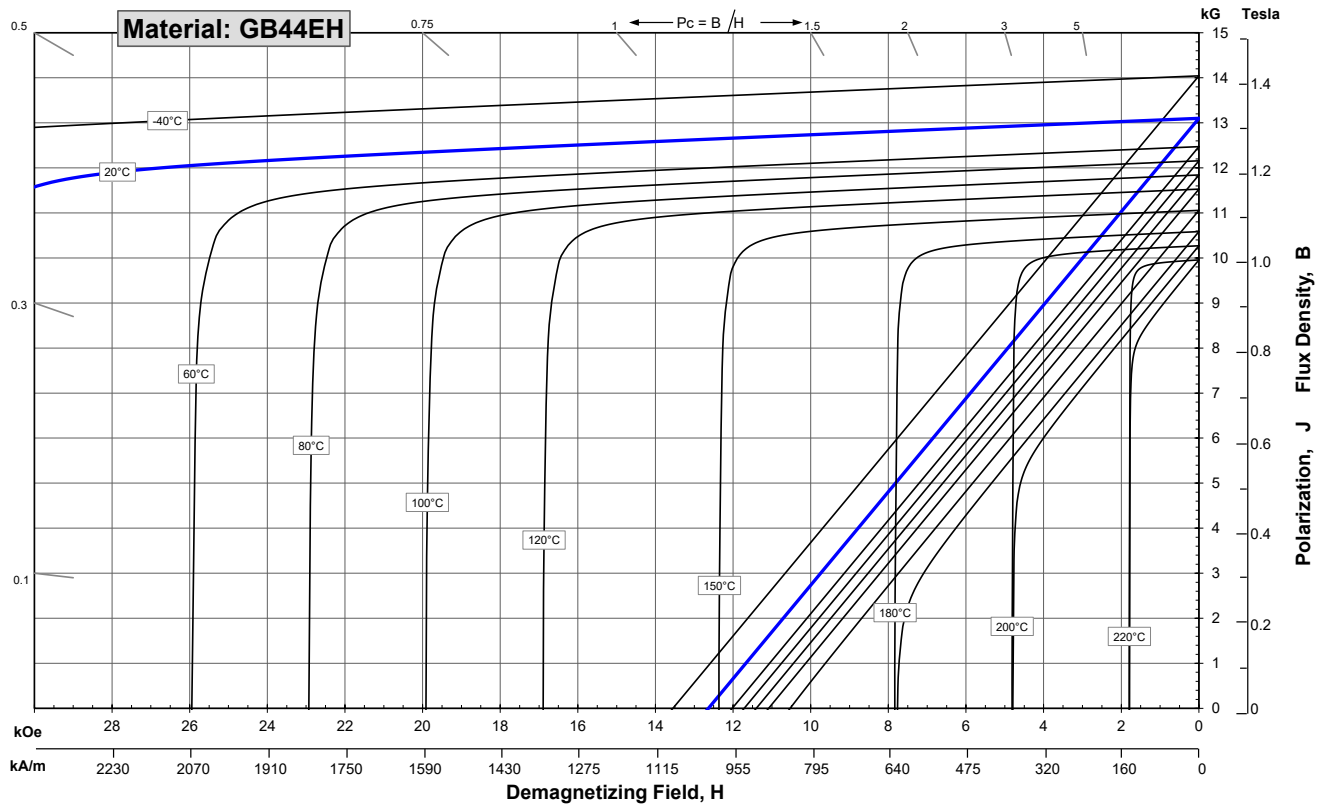
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,900	13,100	13,400
	mT	1290	1310	1340
H_{cB} , Coercivity	Oersteds	12,200	12,500	12,800
	kA/m	971	995	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	32,000		
	kA/m	2,547		
BH_{max} , Maximum Energy Product	MGOe	40	43	45
	kJ/m ³	318	338	358

Characteristic	Units	Thermal Properties		
		C //	C ⊥	
Reversible Temperature Coefficients ⁽¹⁾				
	of Induction, α(Br)	%/°C	-0.12	
	of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1	
Thermal Conductivity	kcal/mhr°C	5.3	5.8	
Specific Heat ⁽³⁾	cal/g°C	0.11		
Curie Temperature, T _c	°C	310		
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
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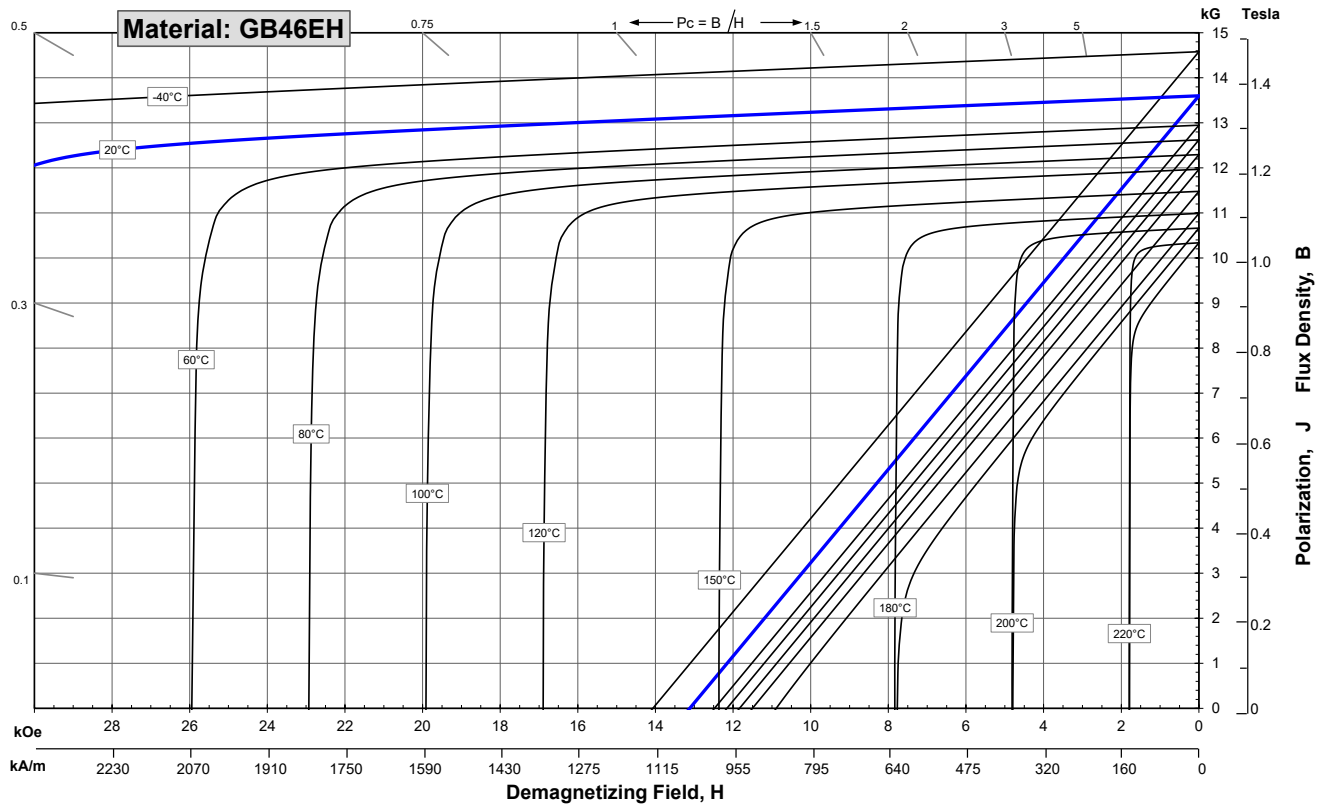
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,400	13,600	13,800
	mT	1340	1360	1380
H_{cB} , Coercivity	Oersteds	12,700	12,950	13,200
	kA/m	1011	1031	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	32,000		
	kA/m	2,547		
BH_{max} , Maximum Energy Product	MGOe	43	46	48
	kJ/m ³	342	362	382

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes:
 (1) Coefficients measured between 20 and 200 °C
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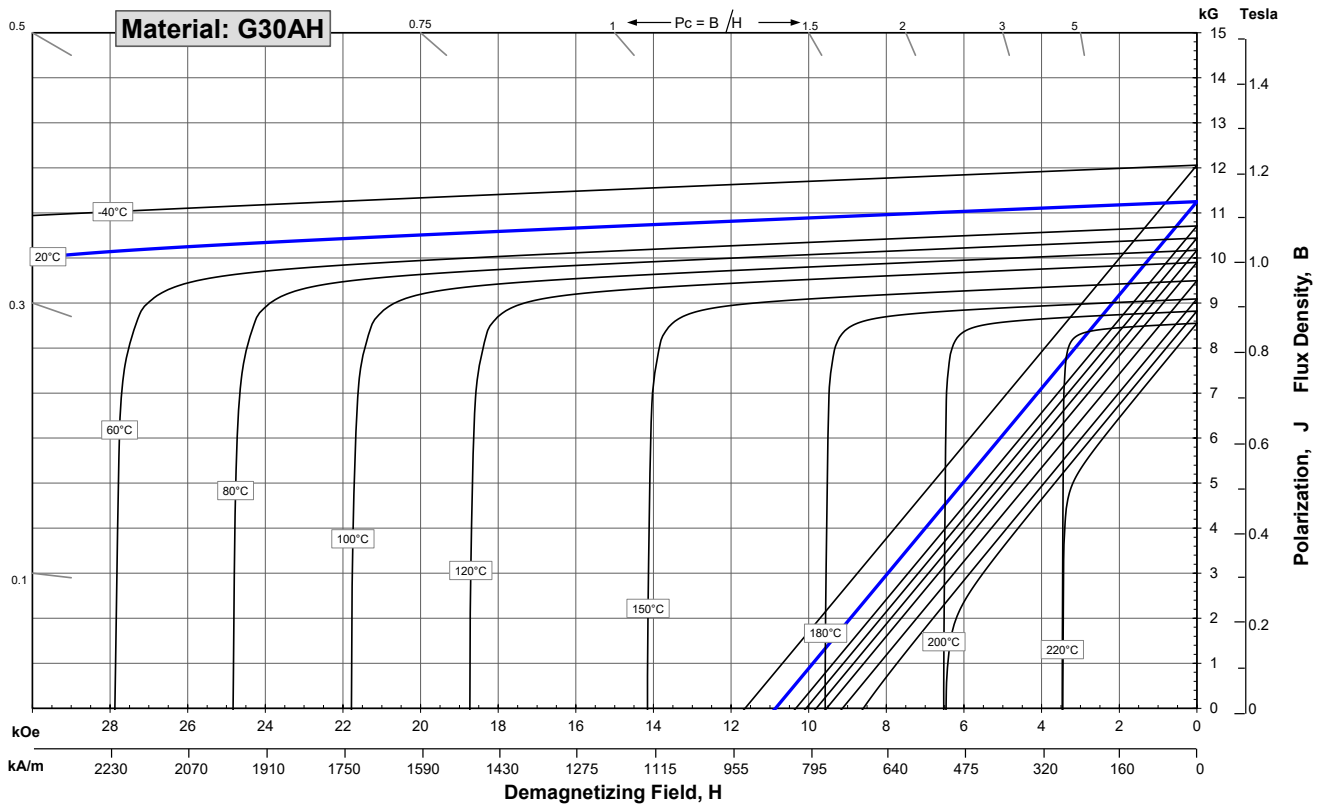
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	10,800	11,250	11,700
	mT	1080	1125	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BHmax , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.45
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes:
 (1) Coefficients measured between 20 and 220 °C
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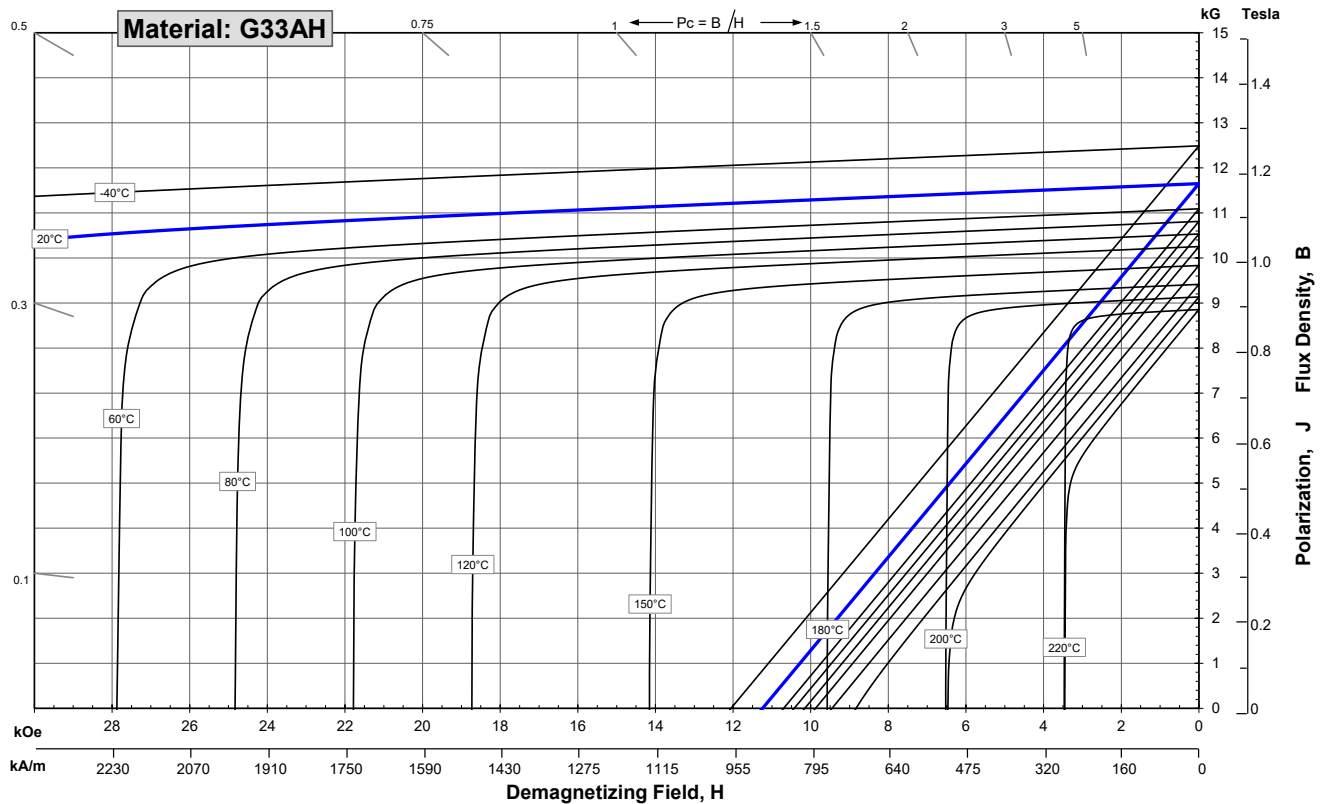
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,650	12,000
	mT	1130	1165	1200
H_{cB} , Coercivity	Oersteds	10,300	10,900	11,500
	kA/m	820	867	915
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.45
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 220 °C
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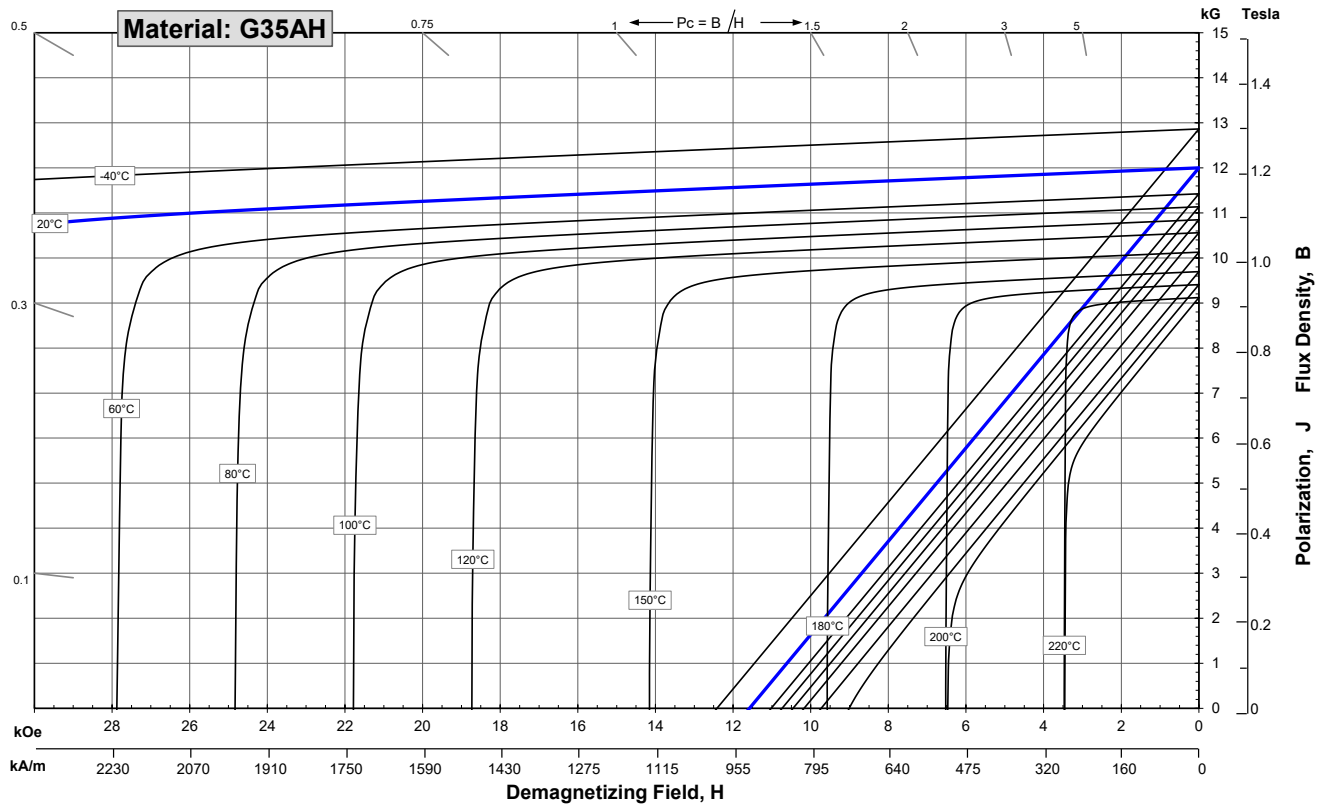
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,700	12,000	12,300
	mT	1170	1200	1230
H_{cB} , Coercivity	Oersteds	10,500	11,150	11,800
	kA/m	836	887	939
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	33	35	37
	kJ/m ³	263	279	295

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.45
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength		psi	41,300
		MPa	285
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
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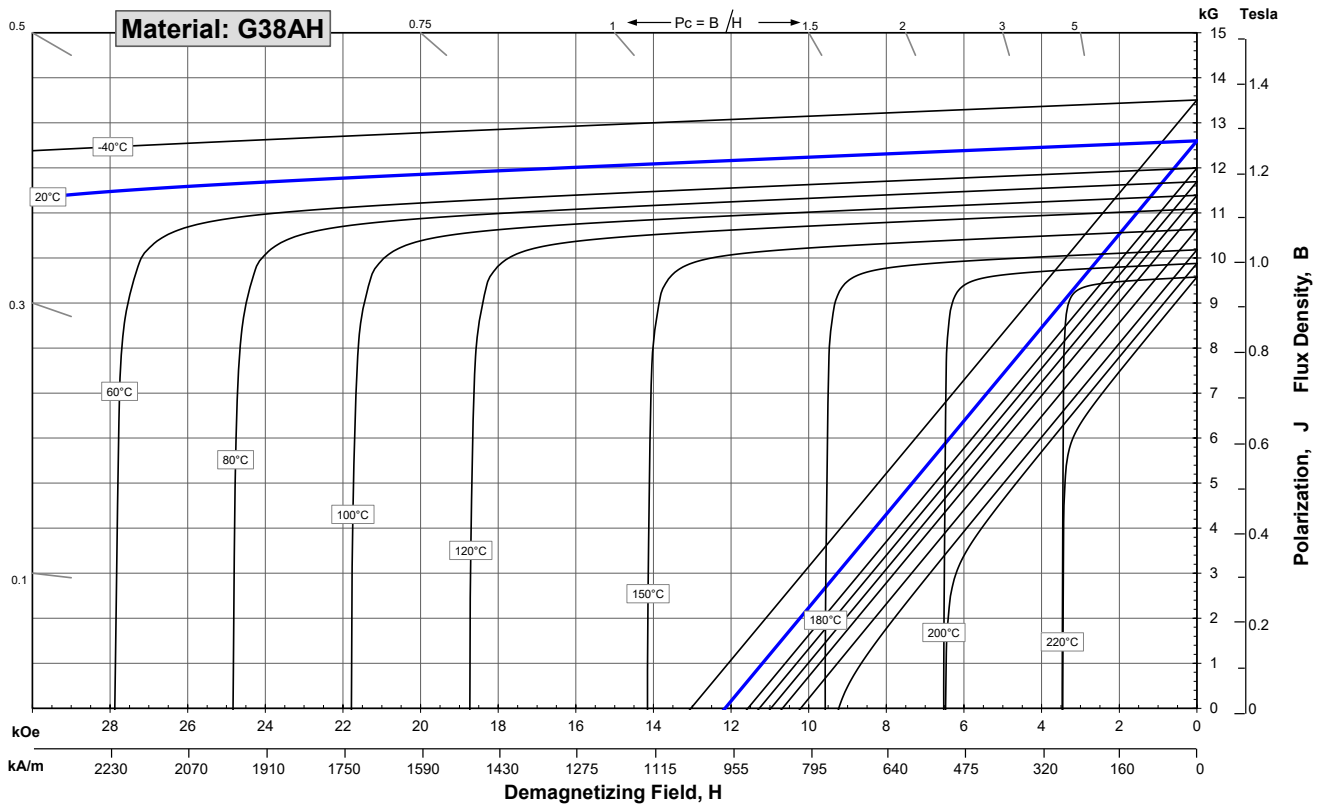
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,200	12,600	13,000
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.45
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength		psi	41,300
		MPa	285
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
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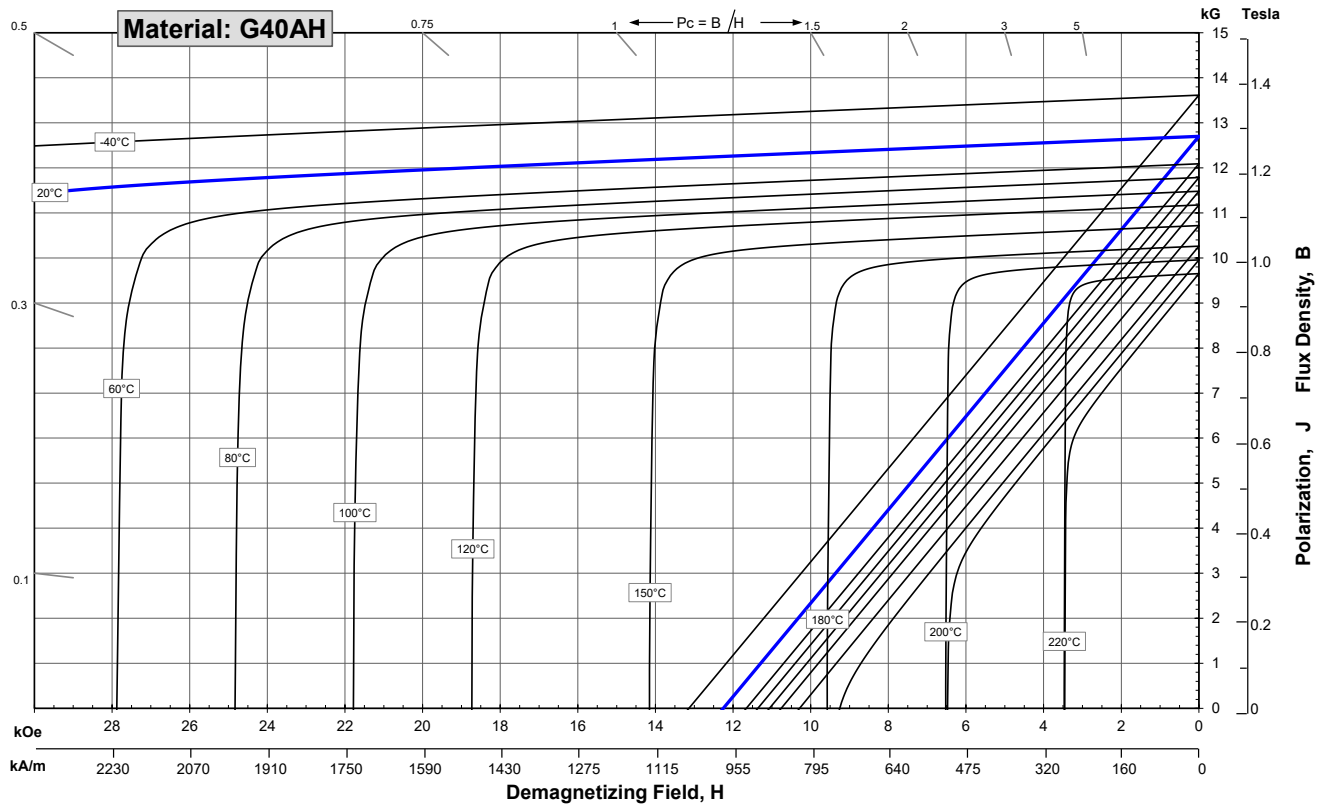
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,700	12,900
	mT	1250	1270	1290
H_{cB} , Coercivity	Oersteds	11,500	11,900	12,300
	kA/m	915	947	979
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.45
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength		psi	41,300
		MPa	285
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
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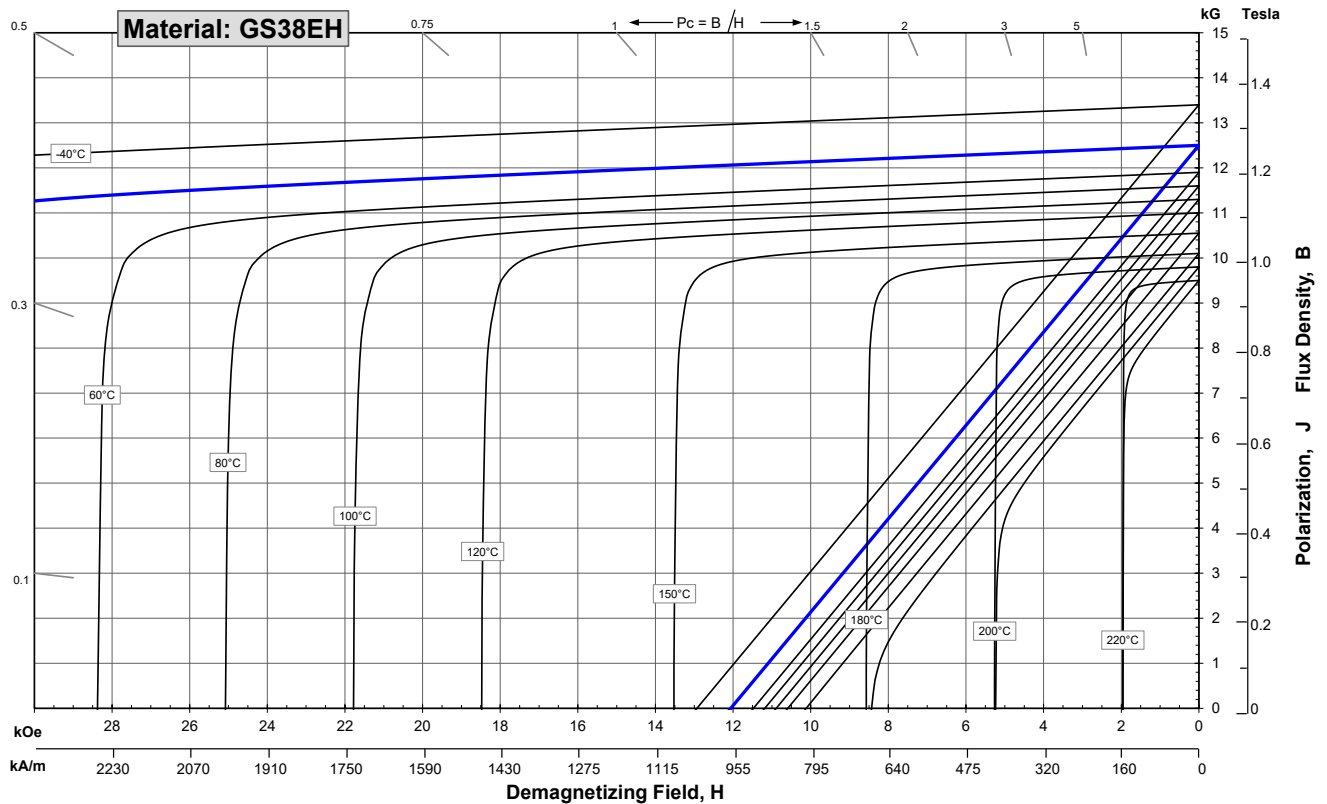
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,200	12,500	12,800
	mT	1220	1250	1280
H_{cB} , Coercivity	Oersteds	11,600	11,900	12,200
	kA/m	923	947	971
H_{cJ} , Intrinsic Coercivity	Oersteds	35,000		
	kA/m	2,786		
BH_{max} , Maximum Energy Product	MGOe	35	38	40
	kJ/m ³	279	299	318

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength		psi	41,300
		MPa	285
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
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1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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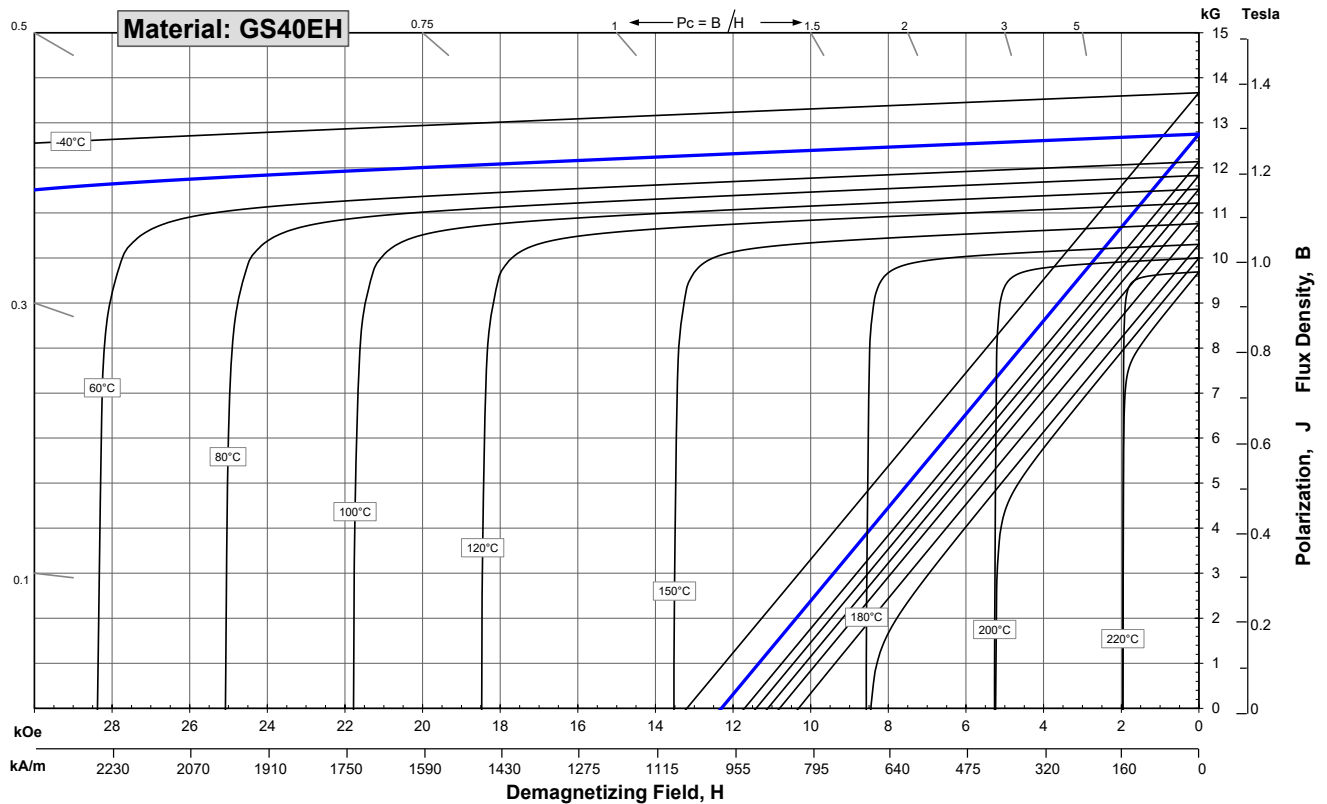
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,750	13,000
	mT	1250	1275	1300
H_{cB} , Coercivity	Oersteds	12,000	12,200	12,400
	kA/m	955	971	987
H_{cJ} , Intrinsic Coercivity	Oersteds	35,000		
	kA/m	2,786		
BH_{max} , Maximum Energy Product	MGOe	38	41	43
	kJ/m ³	302	322	342

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁵	7	-1
Thermal Conductivity	kcal/mh°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength		psi	41,300
		MPa	285
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C. Values are typical and can vary.
 (3) Between 20 and 140 °C



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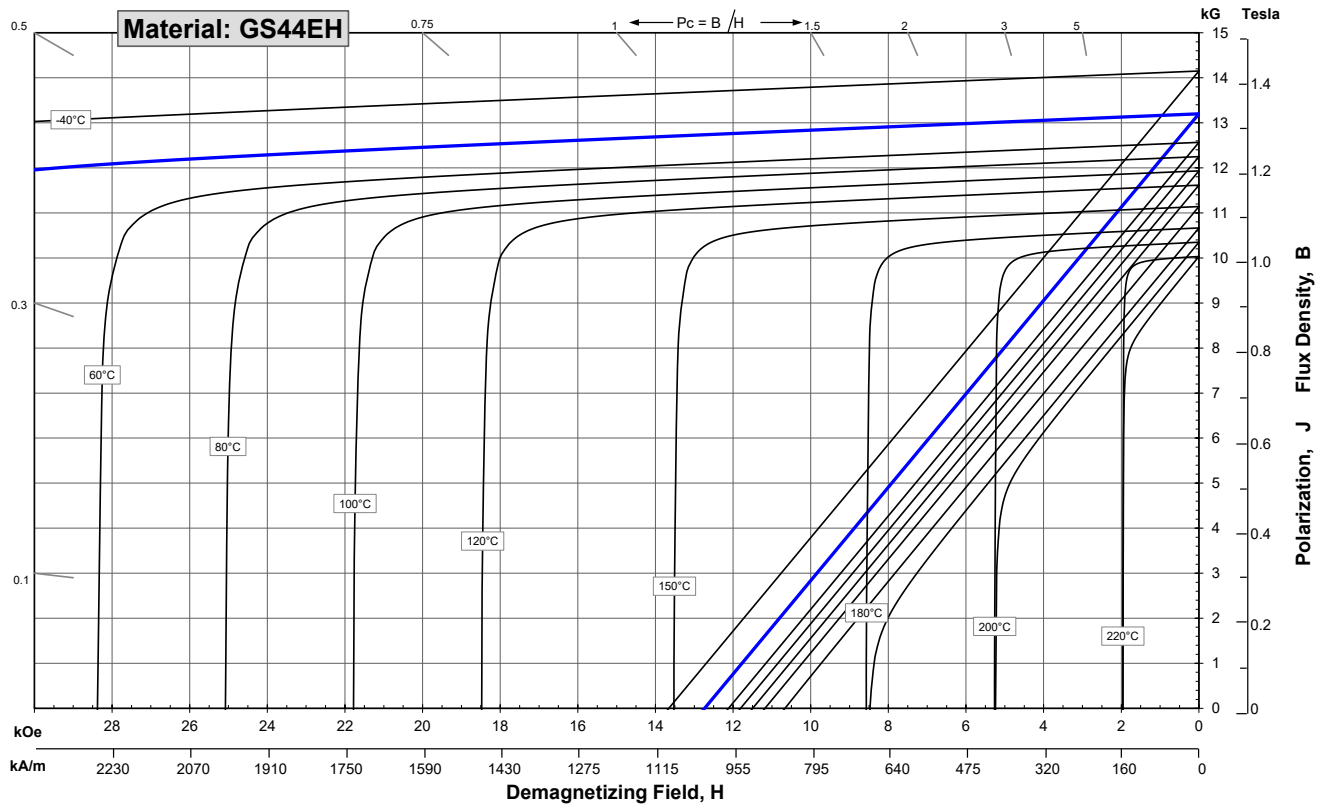
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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,000	13,200
		mT	1300	1320	1340
H_{cB} , Coercivity		Oersteds	12,300	12,550	12,800
		kA/m	979	999	1019
H_{cJ} , Intrinsic Coercivity		Oersteds	35,000		
		kA/m	2,786		
BH_{max} , Maximum Energy Product		MGOe	41	44	46
		kJ/m ³	326	346	366

Thermal Properties	Characteristic	Units	C //	C ⊥
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7	-1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾		cal/g°C	0.11	
Curie Temperature, T _c		°C	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 200 °C
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Demagnetization curves show nominal Br and minimum H_{cj}.

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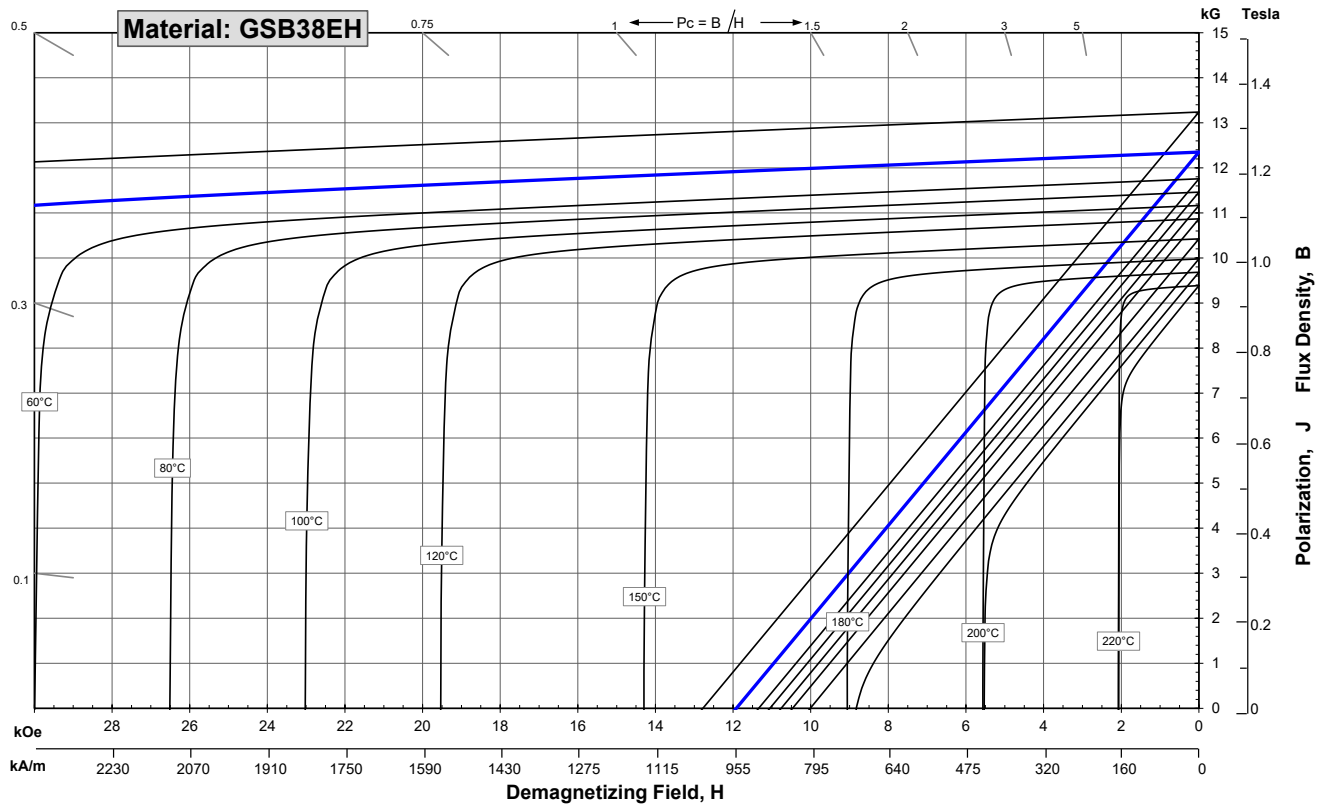
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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,100	12,350	12,600
	mT	1210	1235	1260
H_{cB} , Coercivity	Oersteds	11,500	11,750	12,000
	kA/m	915	935	955
H_{cJ} , Intrinsic Coercivity	Oersteds	37,000		
	kA/m	2,945		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes:
 (1) Coefficients measured between 20 and 200 °C
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 (3) Between 20 and 140 °C



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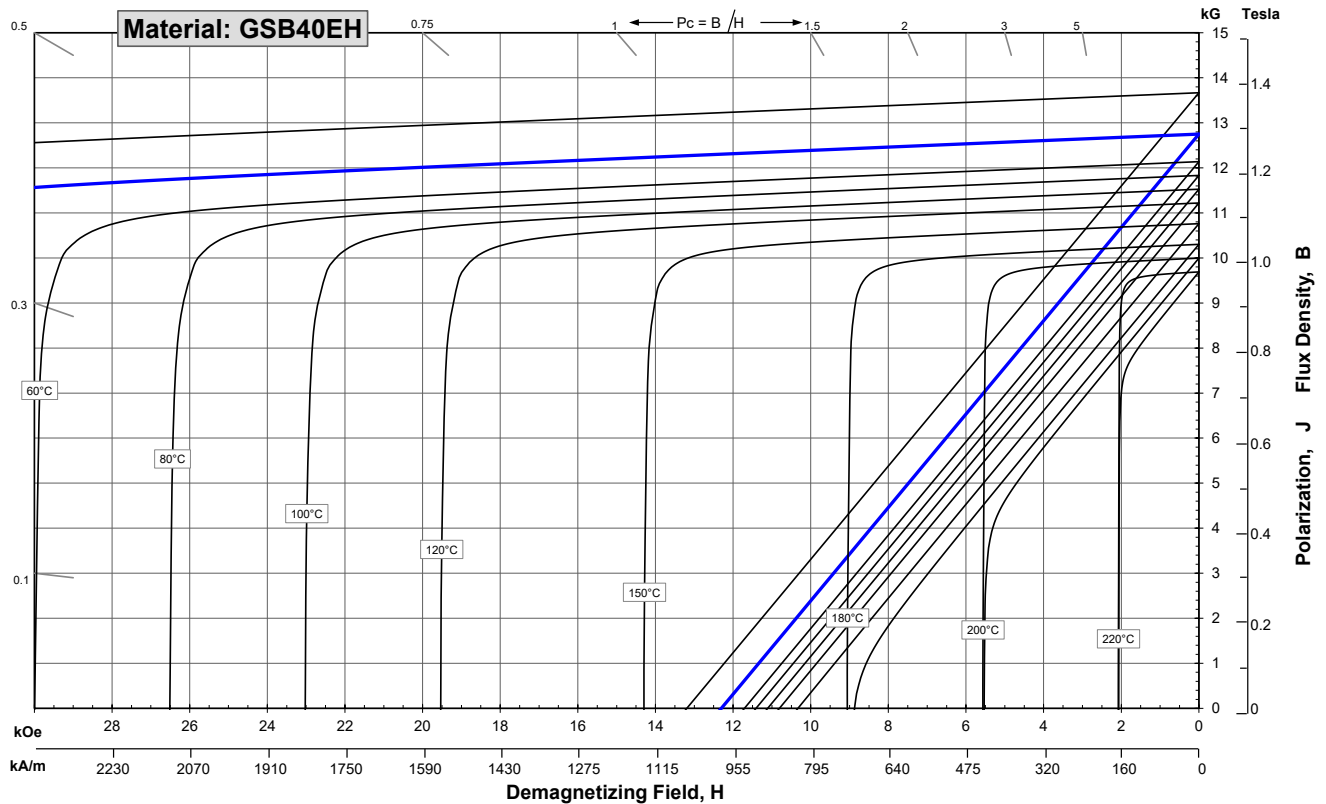
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Br , Residual Induction	Gauss	12,500	12,750	13,000
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H_{cB} , Coercivity	Oersteds	12,000	12,200	12,400
	kA/m	955	971	987
H_{cJ} , Intrinsic Coercivity	Oersteds	37,000		
	kA/m	2,945		
BH_{max} , Maximum Energy Product	MGOe	38	41	43
	kJ/m ³	302	324	345

Characteristic	Units	Thermal Properties	
		C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7	-1
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Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥

Notes:
 (1) Coefficients measured between 20 and 200 °C
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