ARNOLD MAGNETIC TECHNOLOGIES

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
G45SH	1350	13500	979	12300	1592	20000	354	44	-0.12	-0.549	150
G48SH	1390	13900	1011	12700	1592	20000	374	47	-0.12	-0.549	150
G50SH	1425	14250	836	10500	1592	20000	390	49	-0.12	-0.549	150
G52SH	1440	14400	1067	13400	1592	20000	402	51	-0.12	-0.549	150
G55SH	1460	14600	1083	13600	1512	19000	418	53	-0.12	-0.549	150
GB48SH	1390	13900	1011	12700	1751	22000	374	47	-0.12	-0.549	150
GB50SH	1425	14250	836	10500	1751	22000	390	49	-0.12	-0.549	150
GB52SH	1440	14400	1067	13400	1751	22000	402	51	-0.12	-0.549	150
GB55SH	1460	14600	1083	13600	1672	21000	418	53	-0.12	-0.549	150
G38UH	1260	12600	876	11000	1990	25000	307	39	-0.12	-0.465	180
G40UH	1285	12850	915	11500	1990	25000	318	40	-0.12	-0.465	180
G42UH	1310	13100	955	12000	1990	25000	330	41	-0.12	-0.465	180
G45UH	1350	13500	979	12300	1990	25000	354	44	-0.12	-0.465	180
G48UH	1390	13900	1011	12700	1990	25000	374	47	-0.12	-0.465	180
G50UH	1410	14100	1051	13200	1990	25000	386	49	-0.12	-0.465	180
G52UH	1430	14300	1067	13400	1990	25000	394	50	-0.12	-0.465	180
G42UH	1310	13100	955	12000	2149	27000	330	41	-0.12	-0.465	180
GB45UH	1350	13500	979	12300	2149	27000	354	44	-0.12	-0.465	180
G48UH	1390	13900	1011	12700	2419	27000	374	47	-0.12	-0.465	180
GB50UH	1410	14100	1051	13200	2449	27000	386	48.506	-0.12	-0.465	180
G30EH	1125	11250	812	10200	2388	30000	243	30.536	-0.12	-0.472	200
G33EH	1165	11650	820	10300	2388	30000	267	33.552	-0.12	-0.472	200
G35EH	1200	12000	836	10500	2388	30000	279	35.06	-0.12	-0.472	200
G38EH	1260	12600	876	11000	2388	30000	306.5	38.516	-0.12	-0.472	200

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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
N30UHZ	1125	11250	812	10200	1990	25000	243	31	-0.10	-0.510	180
N33UHZ	1175	11750	852	10700	1990	25000	267	34	-0.10	-0.510	180
N38UHZ	1260	12600	876	11000	1990	25000	307	39	-0.10	-0.510	180
N40UHZ	1285	12850	915	11500	1990	25000	318	40	-0.10	-0.510	180
N30EHZ	1125	11250	812	10200	2388	30000	0	0	-0.10	-0.472	200
N38EHZ	1235	12350	899	11300	2388	30000	0	0	-0.10	-0.472	200
N30AHZ	1120	11200	812	10200	2706	34000	0	0	-0.10	-0.449	220

** Please check with the factory for availability of grades ending in "X" or "Z".

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G45SH

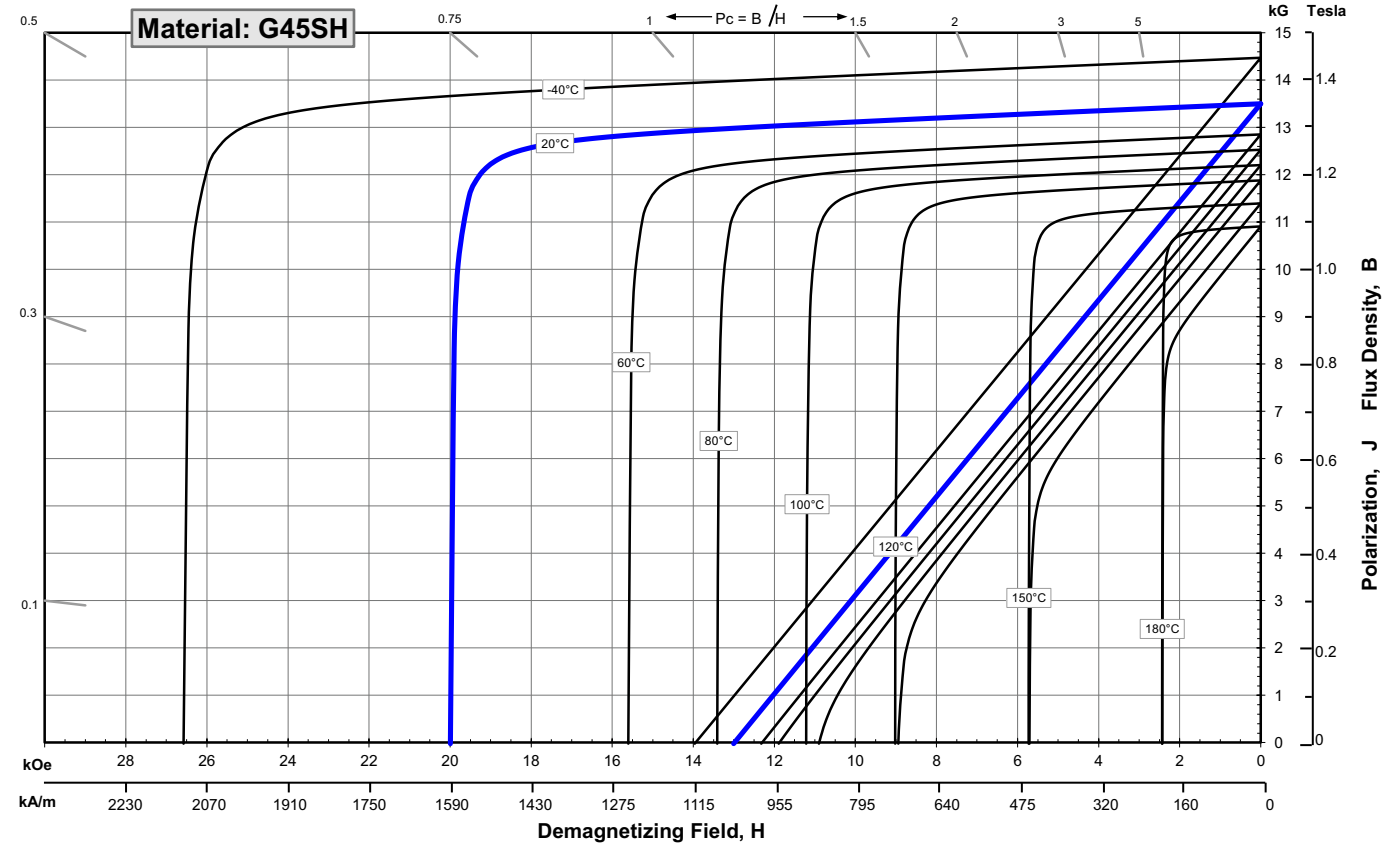
Sintered Neodymium-Iron-Boron Magnets

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	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	43	45	46
		kJ/m^3	342	354	366

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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.

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G48SH

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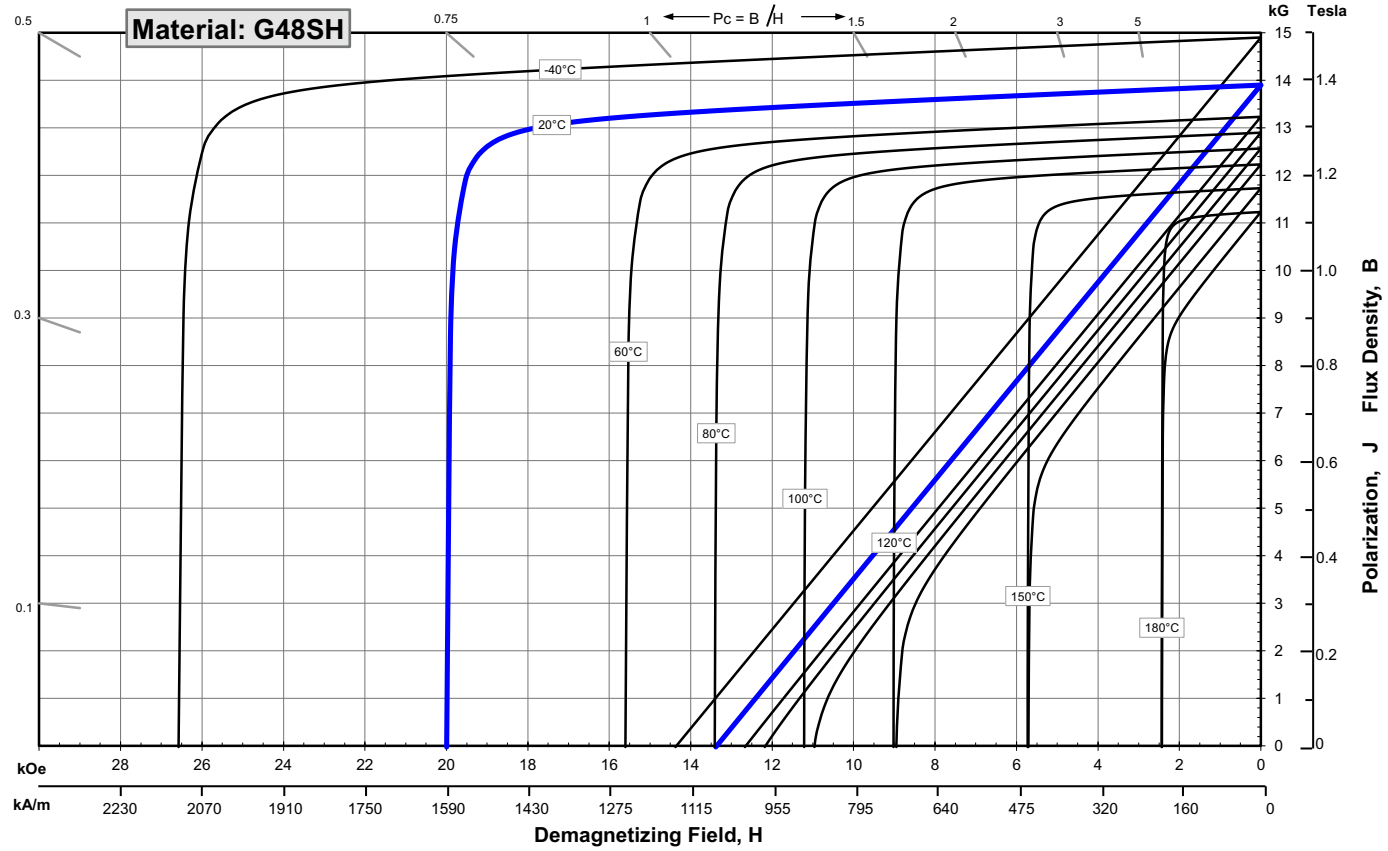
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,600	13,900	14,200
		mT	1360	1390	1420
	H_{cB}, Coercivity	Oersteds	12,700	13,150	13,600
		kA/m	1011	1046	1082
	H_{cJ}, Intrinsic Coercivity	Oersteds	20,000		
		kA/m	1,592		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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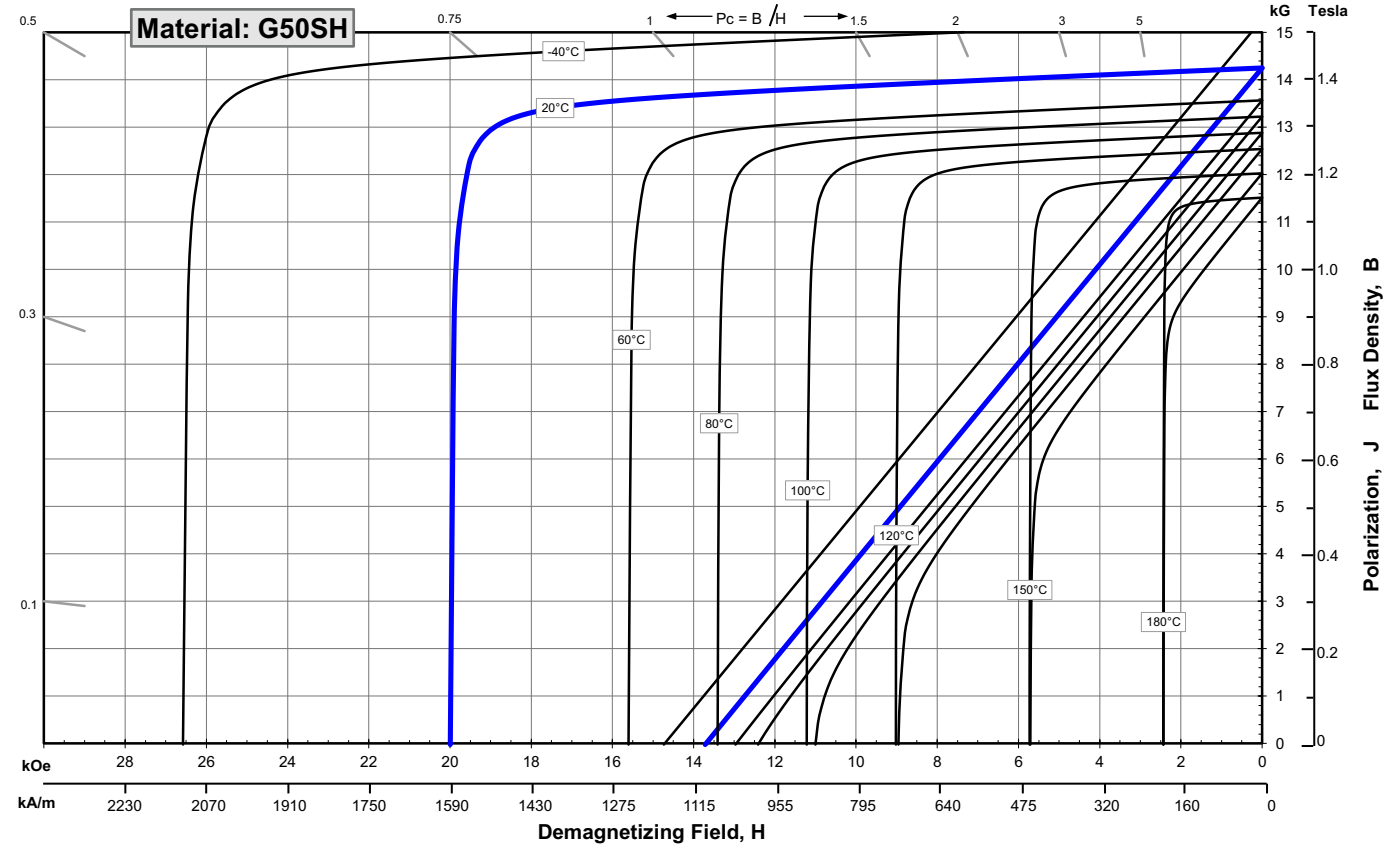
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,900	14,250	14,600
		mT	1390	1425	1460
	H_{cB}, Coercivity	Oersteds	10,500	12,250	14,000
		kA/m	836	975	1114
	H_{cJ}, Intrinsic Coercivity	Oersteds	20,000		
		kA/m	1,592		
	BHmax, Maximum Energy Product	MGOe	47	49	51
		kJ/m^3	374	390	406

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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Sintered Neodymium-Iron-Boron Magnets

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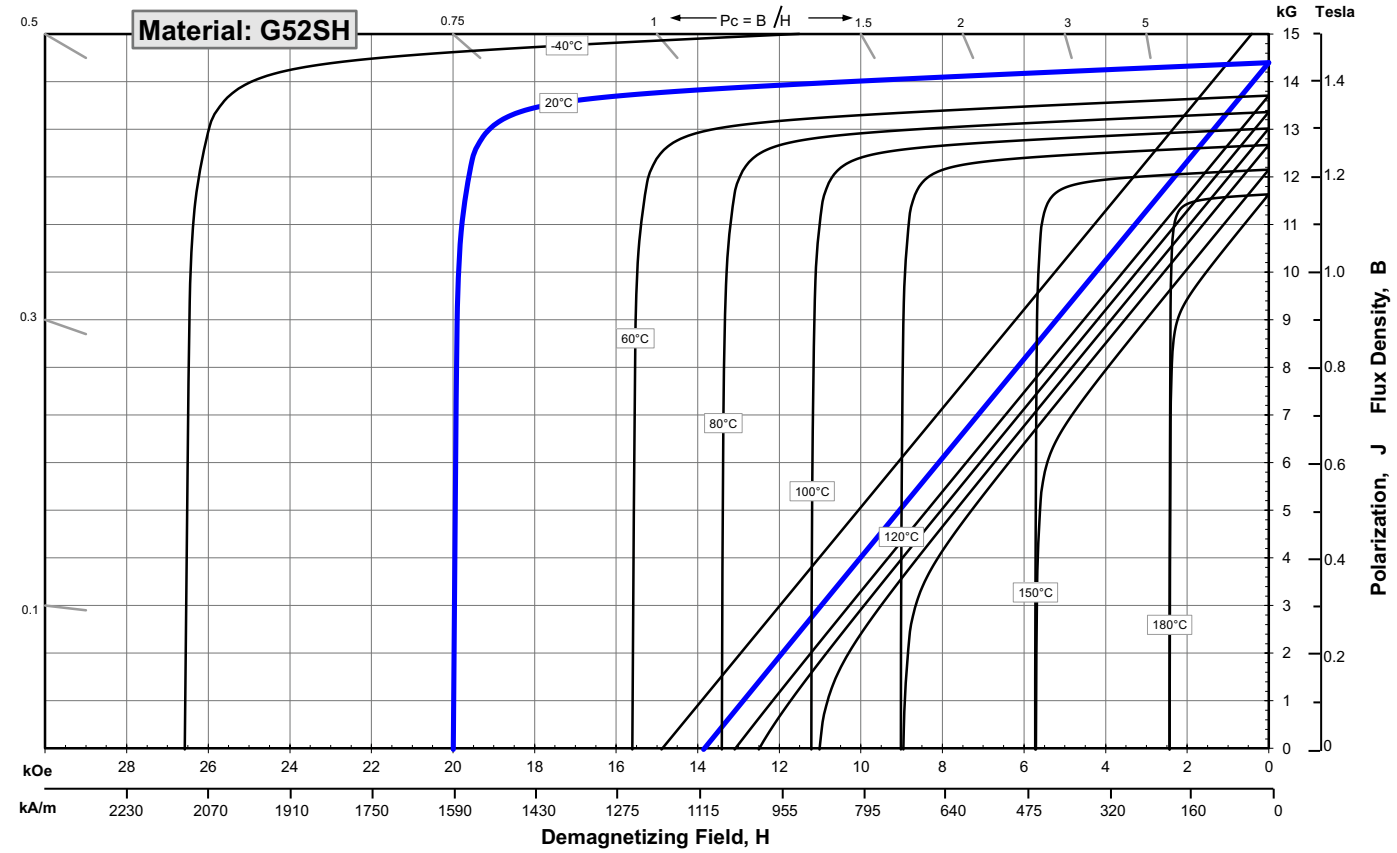
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	14,200	14,400	14,600
		mT	1420	1440	1460
	H_{cB}, Coercivity	Oersteds	13,400	13,700	14,000
		kA/m	1067	1090	1114
	H_{cJ}, Intrinsic Coercivity	Oersteds	20,000		
		kA/m	1,592		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
(2) Between 20 and 200 ºC (3) Between 20 and 140 °C



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G55SH

Sintered Neodymium-Iron-Boron Magnets

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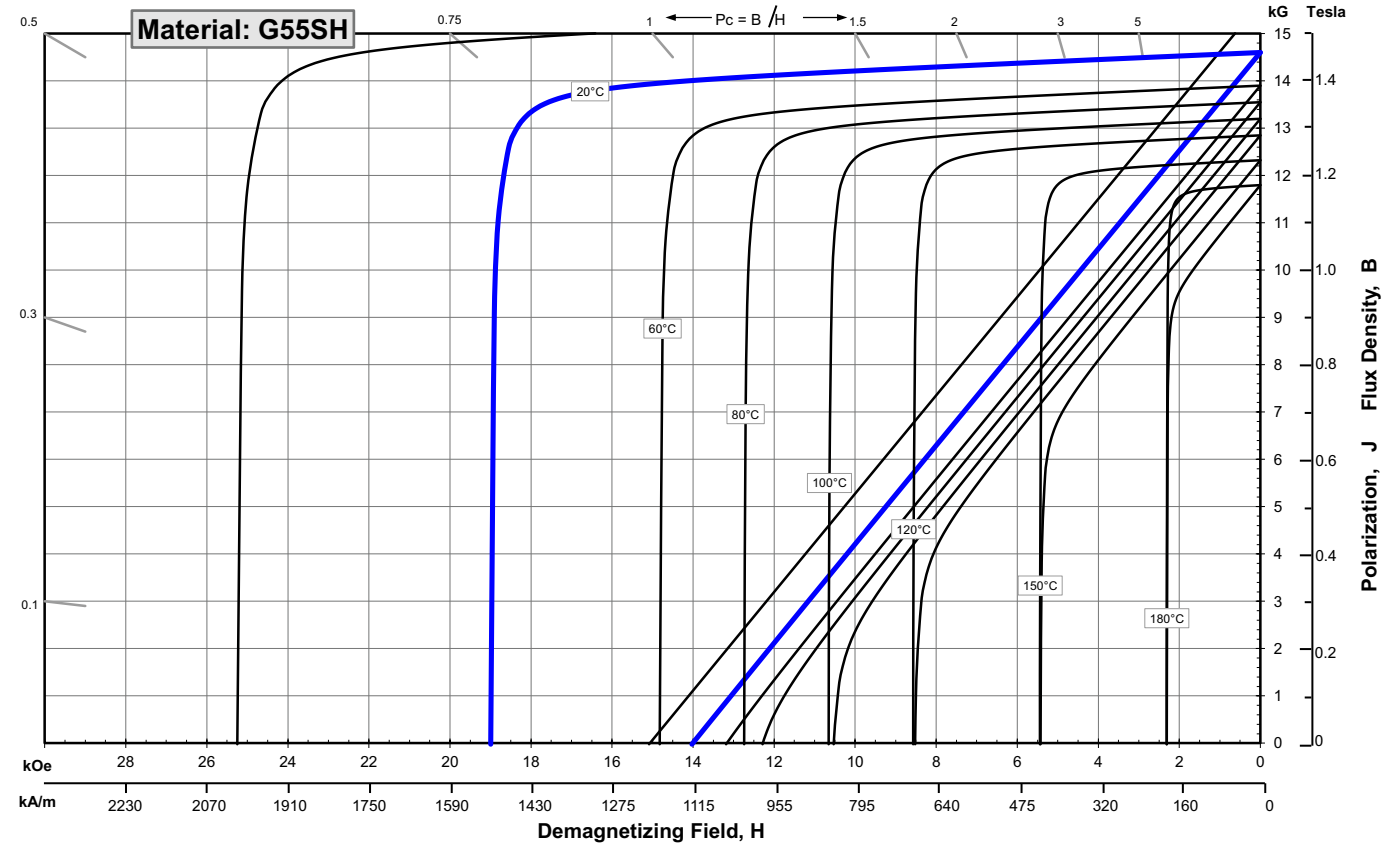
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	14,400	14,600	14,800
		mT	1440	1460	1480
	H_{cB}, Coercivity	Oersteds	13,600	13,850	14,100
		kA/m	1083	1102	1122
	H_{cJ}, Intrinsic Coercivity	Oersteds	19,000		
		kA/m	1,512		
	BHmax, Maximum Energy Product	MGOe	50	53	55
		kJ/m^3	398	418	438

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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GB48UH

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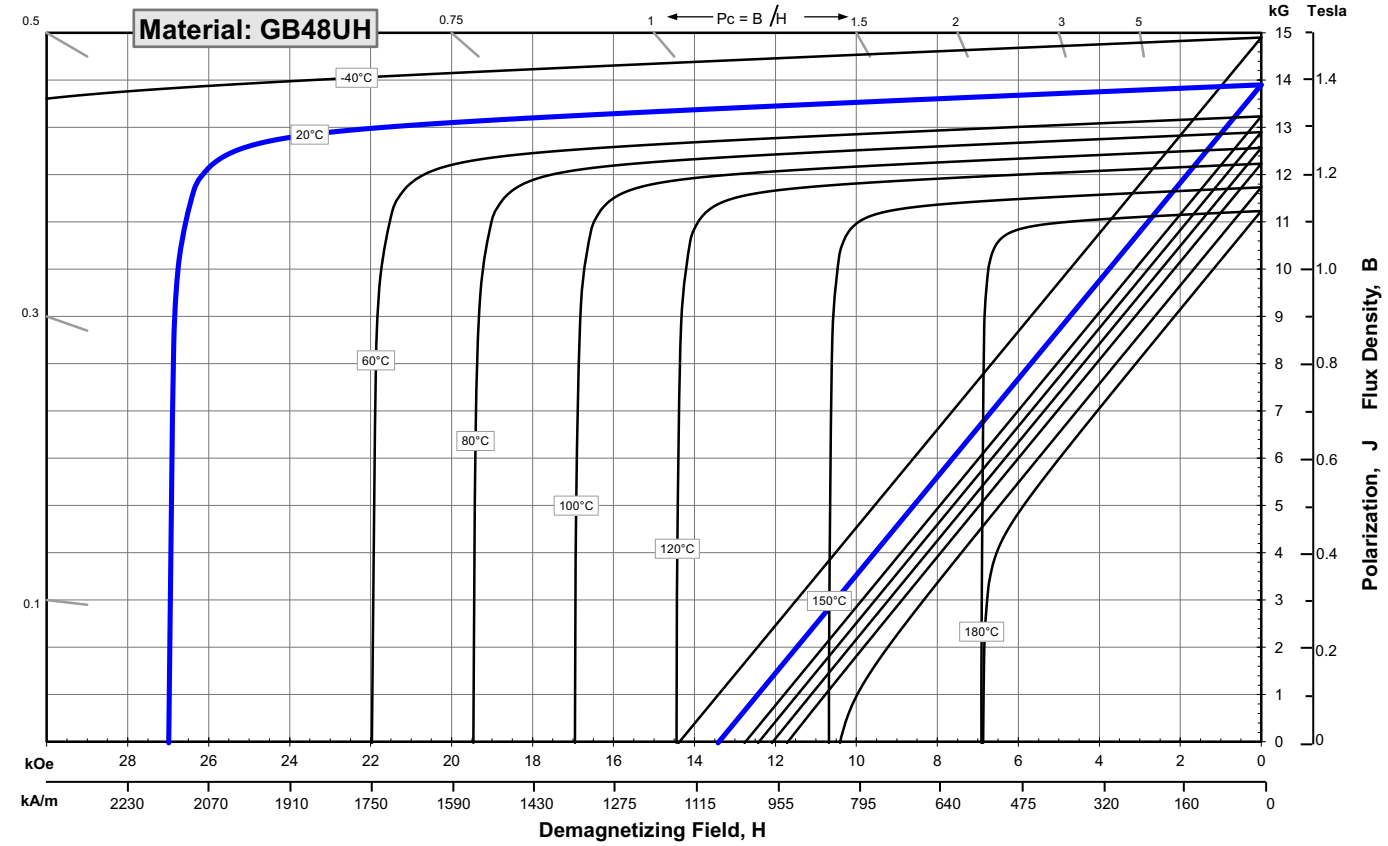
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,600	13,900	14,200
		mT	1360	1390	1420
	H_{cB}, Coercivity	Oersteds	12,700	13,150	13,600
		kA/m	1011	1046	1082
	H_{cJ}, Intrinsic Coercivity	Oersteds	27,000		
		kA/m	2,419		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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GB50SH

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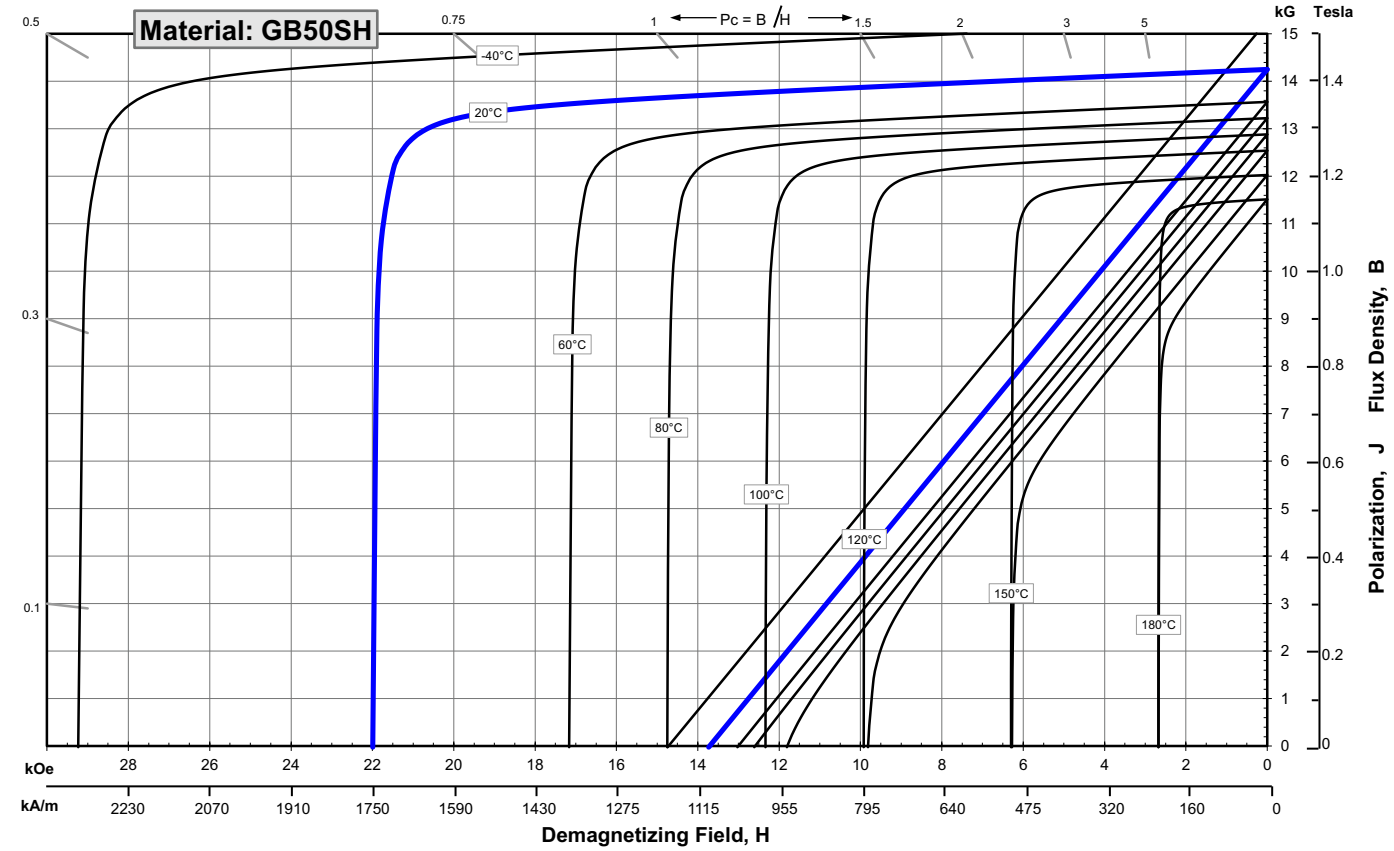
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,900	14,250	14,600
		mT	1390	1425	1460
	H_{cB}, Coercivity	Oersteds	10,500	12,250	14,000
		kA/m	836	975	1114
	H_{cJ}, Intrinsic Coercivity	Oersteds	22,000		
		kA/m	1,751		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G52SH

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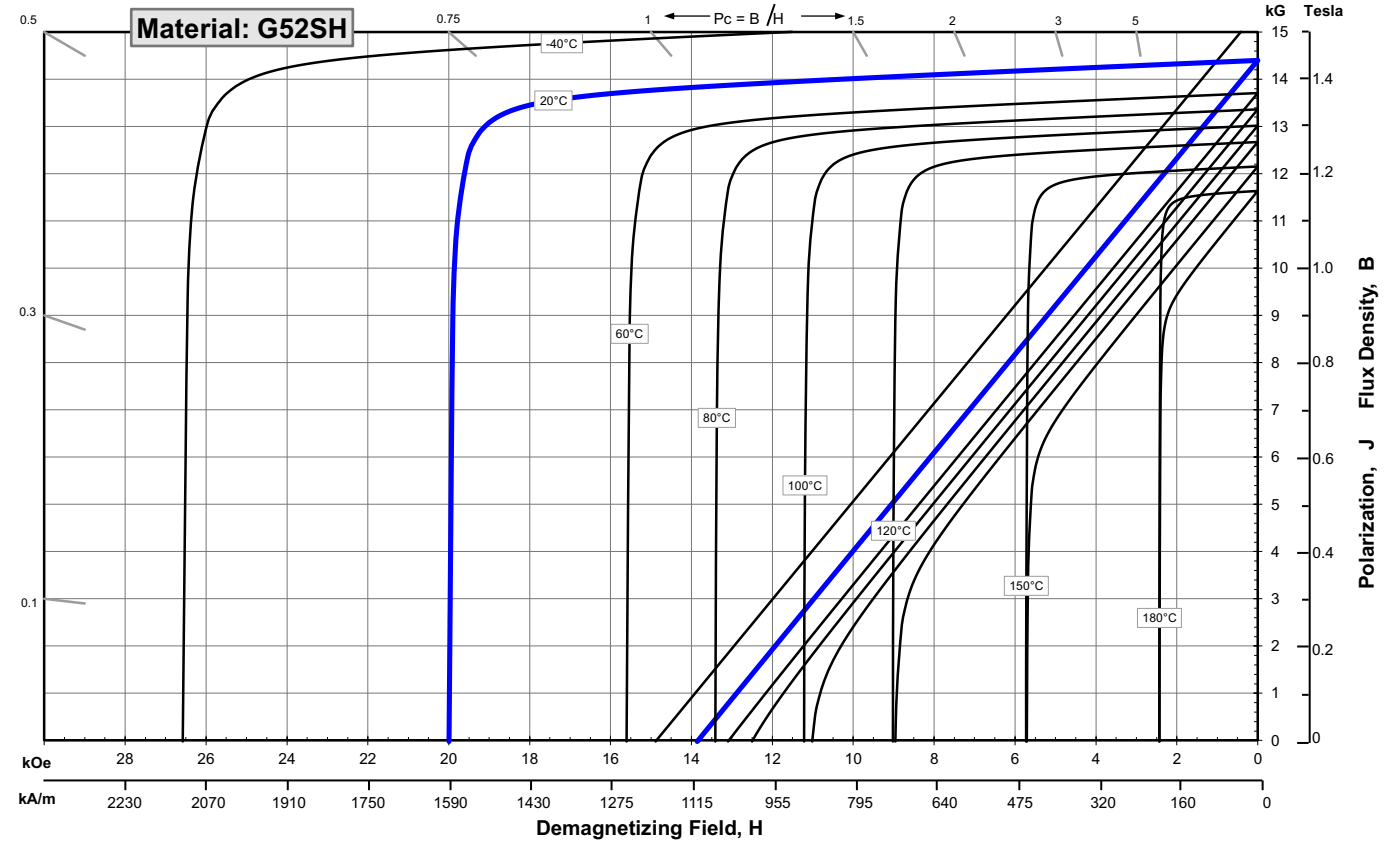
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	14,200	14,400	14,600
		mT	1420	1440	1460
	H_{cB}, Coercivity	Oersteds	13,400	13,700	14,000
		kA/m	1067	1090	1114
	H_{cJ}, Intrinsic Coercivity	Oersteds	20,000		
		kA/m	1,592		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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GB55SH

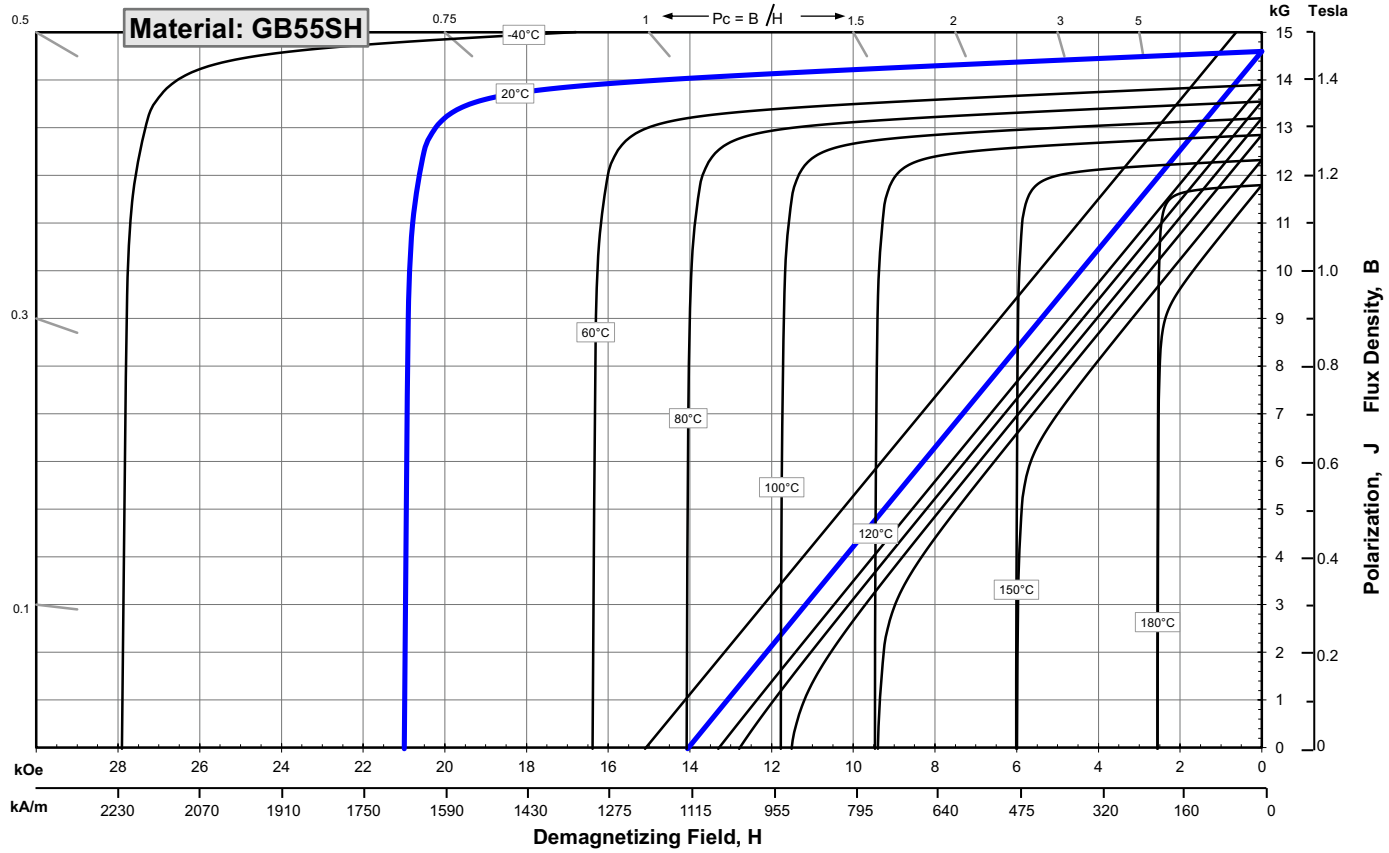
Sintered Neodymium-Iron-Boron Magnets

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	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	14,400	14,600	14,800
		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		
	BHmax, Maximum Energy Product	MGOe	50	53	55
		kJ/m^3	398	418	438

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.55	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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.

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G38UH

Sintered Neodymium-Iron-Boron Magnets

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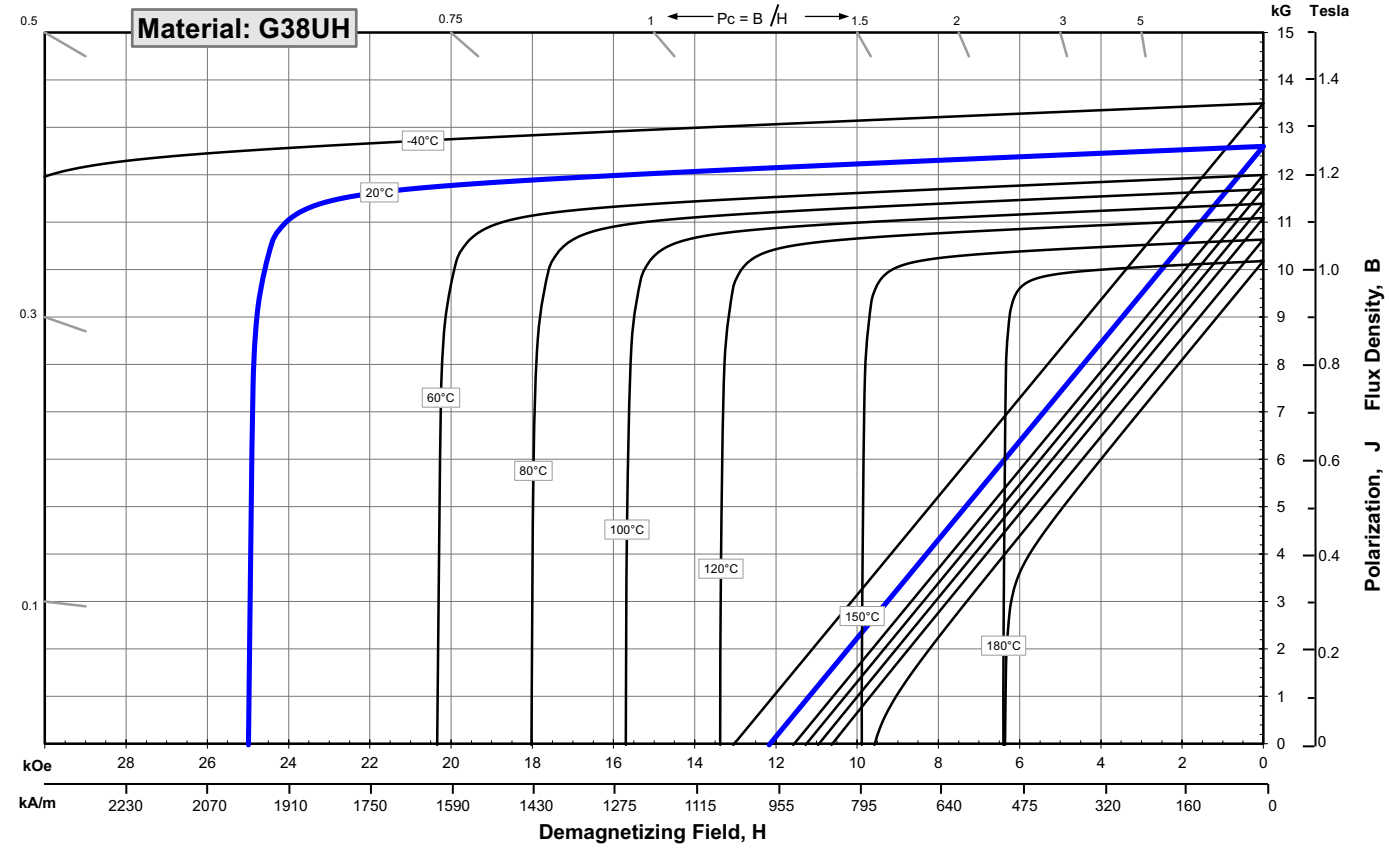
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,200	12,600	13,000
		mT	1220	1260	1300
	H_{cB}, Coercivity	Oersteds	11,000	11,700	12,400
		kA/m	876	931	987
	H_{cJ}, Intrinsic Coercivity	Oersteds	25,000		
		kA/m	1,990		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G40UH

Sintered Neodymium-Iron-Boron Magnets

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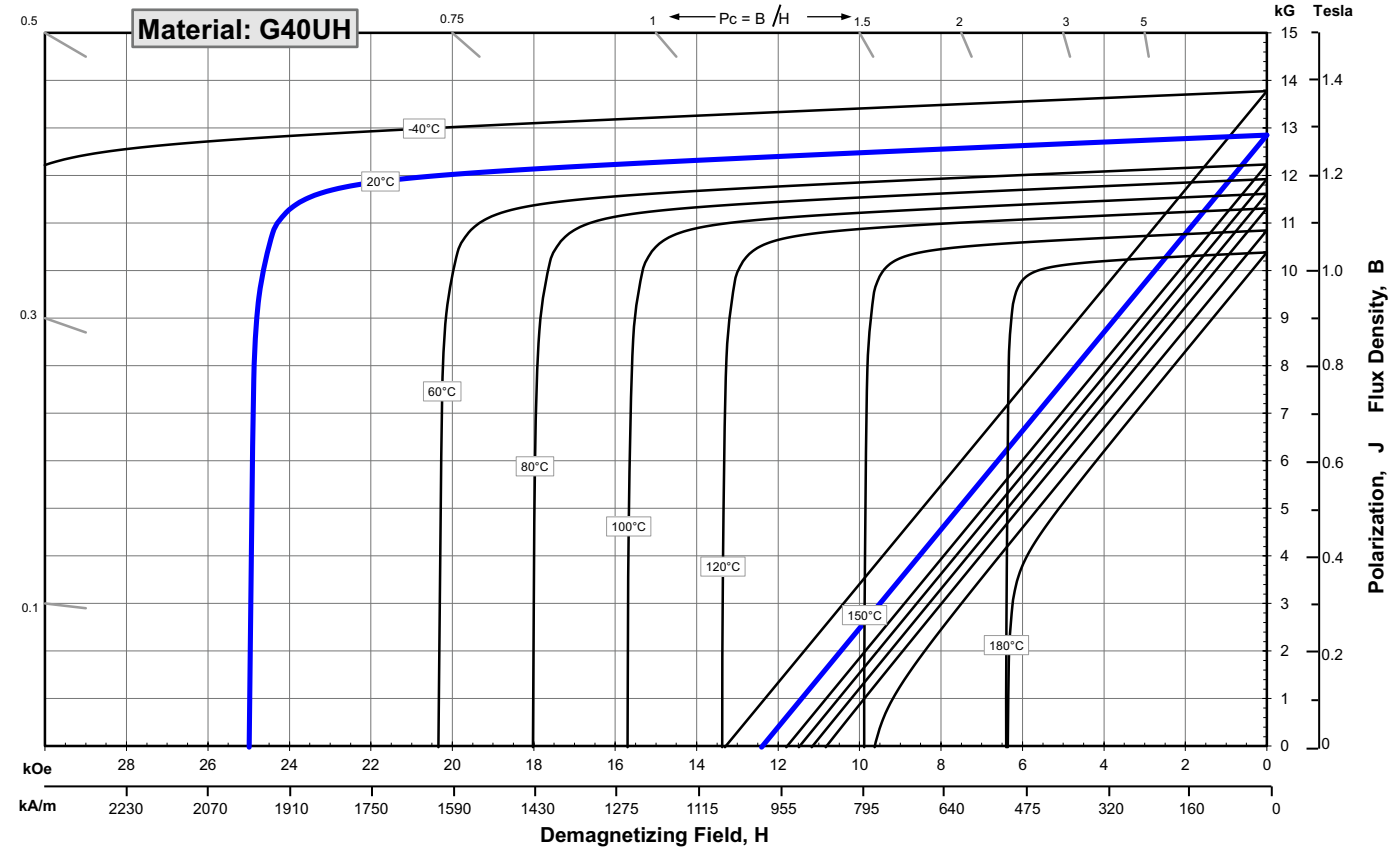
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,500	12,850	13,200
		mT	1250	1285	1320
	H_{cB}, Coercivity	Oersteds	11,500	12,050	12,600
		kA/m	915	959	1003
	H_{cJ}, Intrinsic Coercivity	Oersteds	25,000		
		kA/m	1,990		
	BHmax, Maximum Energy Product	MGOe	38	40	42
		kJ/m^3	302	318	334

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G42UH

Sintered Neodymium-Iron-Boron Magnets

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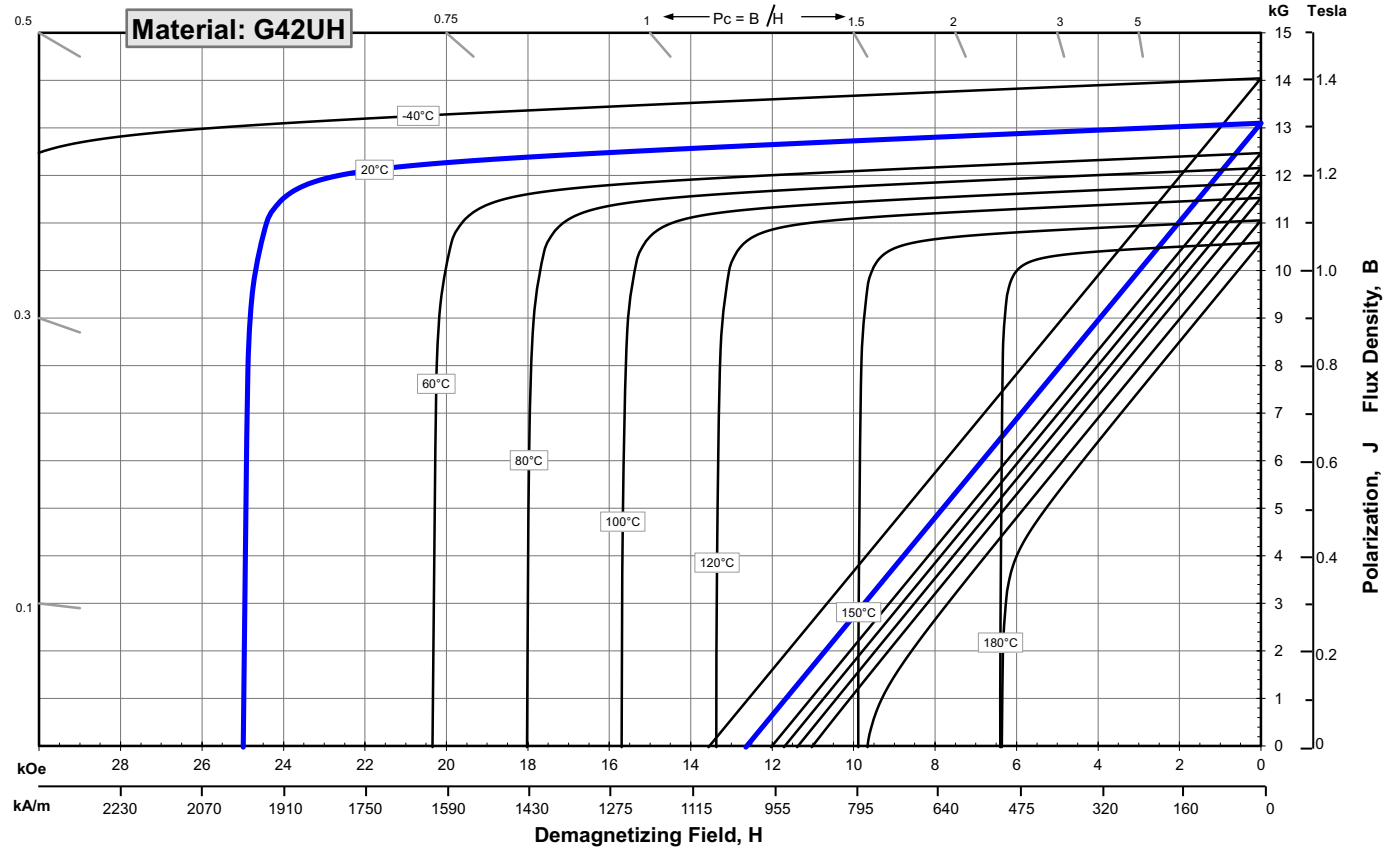
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,800	13,100	13,400
		mT	1280	1310	1340
	H_{cB}, Coercivity	Oersteds	12,000	12,400	12,800
		kA/m	955	987	1019
	H_{cJ}, Intrinsic Coercivity	Oersteds	25,000		
		kA/m	1,990		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G45UH

Sintered Neodymium-Iron-Boron Magnets

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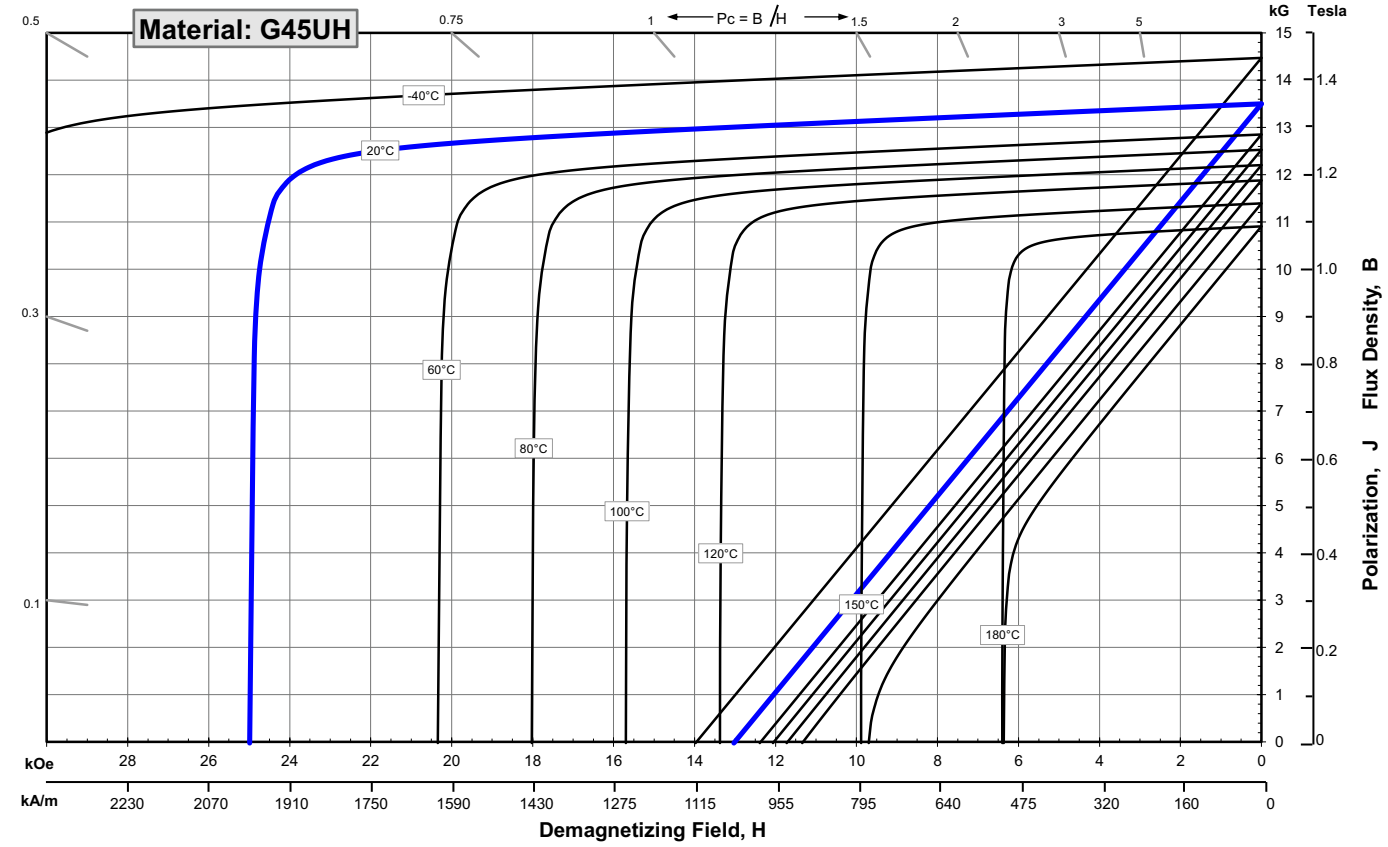
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,200	13,500	13,800
		mT	1320	1350	1380
	H_{cB}, Coercivity	Oersteds	12,300	12,750	13,200
		kA/m	979	1015	1050
	H_{cJ}, Intrinsic Coercivity	Oersteds	25,000		
		kA/m	1,990		
	BHmax, Maximum Energy Product	MGOe	43	45	46
		kJ/m^3	342	354	366

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G48UH

Sintered Neodymium-Iron-Boron Magnets

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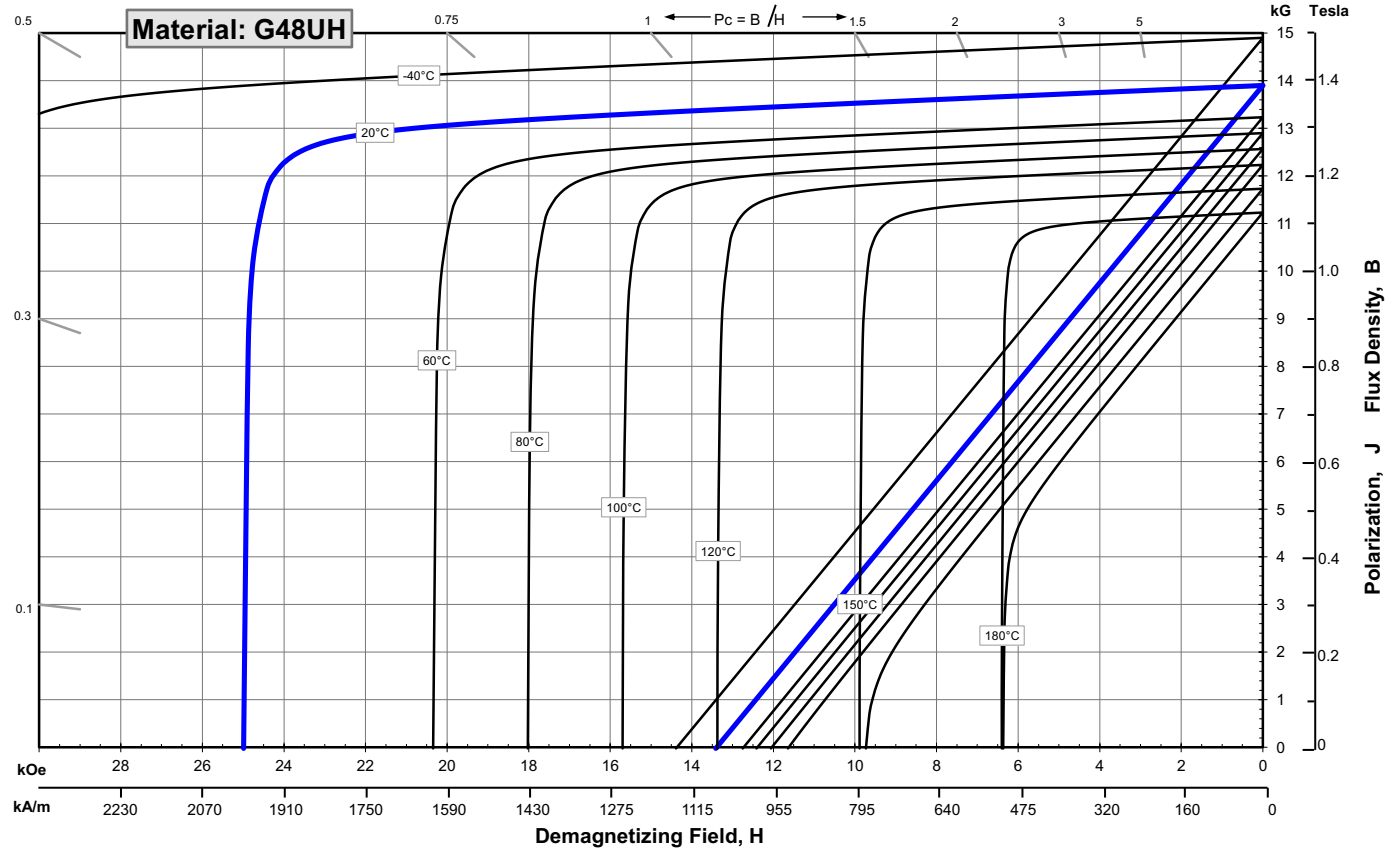
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,600	13,900	14,200
		mT	1360	1390	1420
	H_{cB}, Coercivity	Oersteds	12,700	13,150	13,600
		kA/m	1011	1046	1082
	H_{cJ}, Intrinsic Coercivity	Oersteds	25,000		
		kA/m	1,990		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G50UH

Sintered Neodymium-Iron-Boron Magnets

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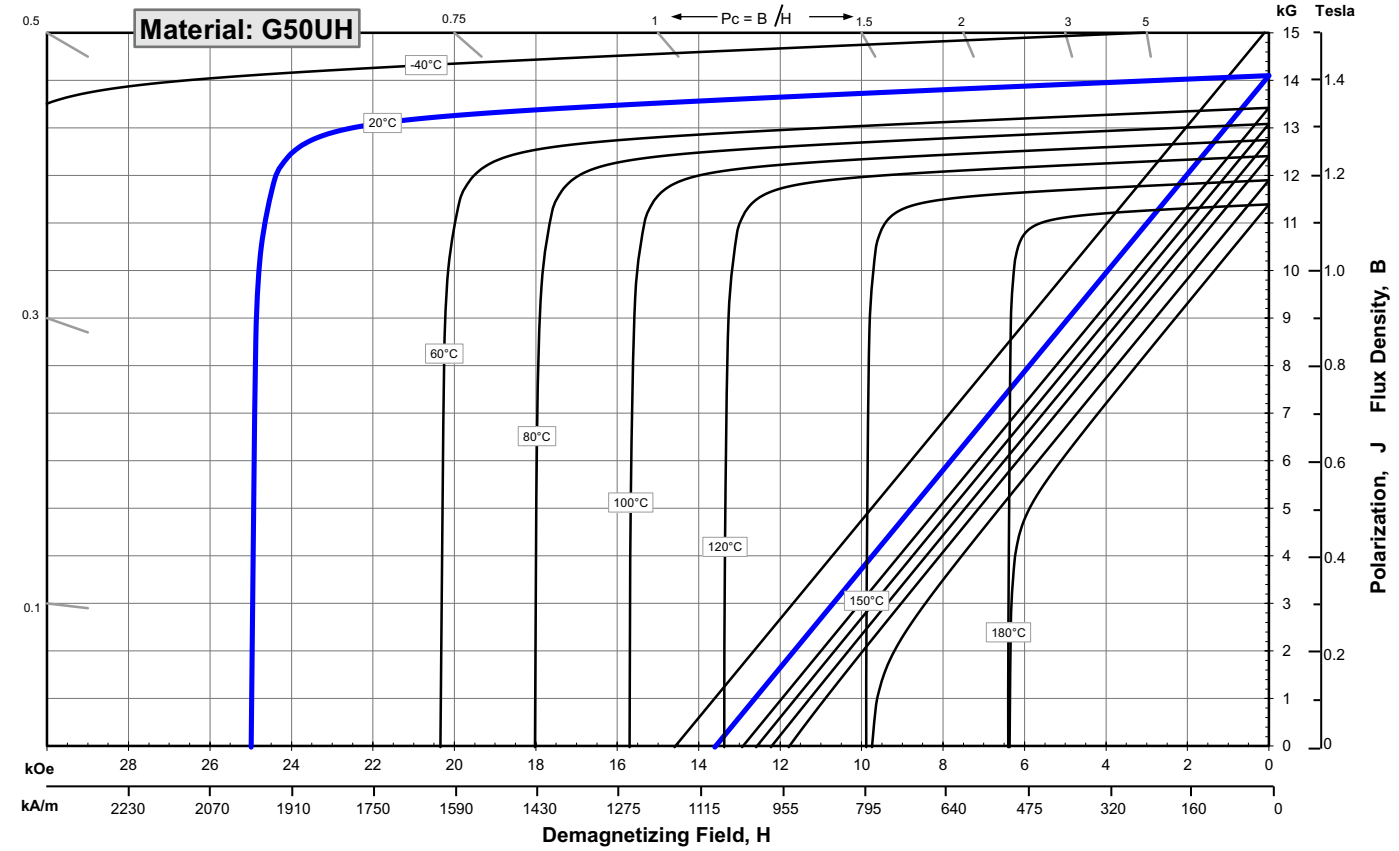
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,900	14,100	14,400
		mT	1390	1410	1440
	H_{cB}, Coercivity	Oersteds	13,200	13,500	13,800
		kA/m	1051	1074	1098
	H_{cJ}, Intrinsic Coercivity	Oersteds	25,000		
		kA/m	1,990		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G52UH

Sintered Neodymium-Iron-Boron Magnets

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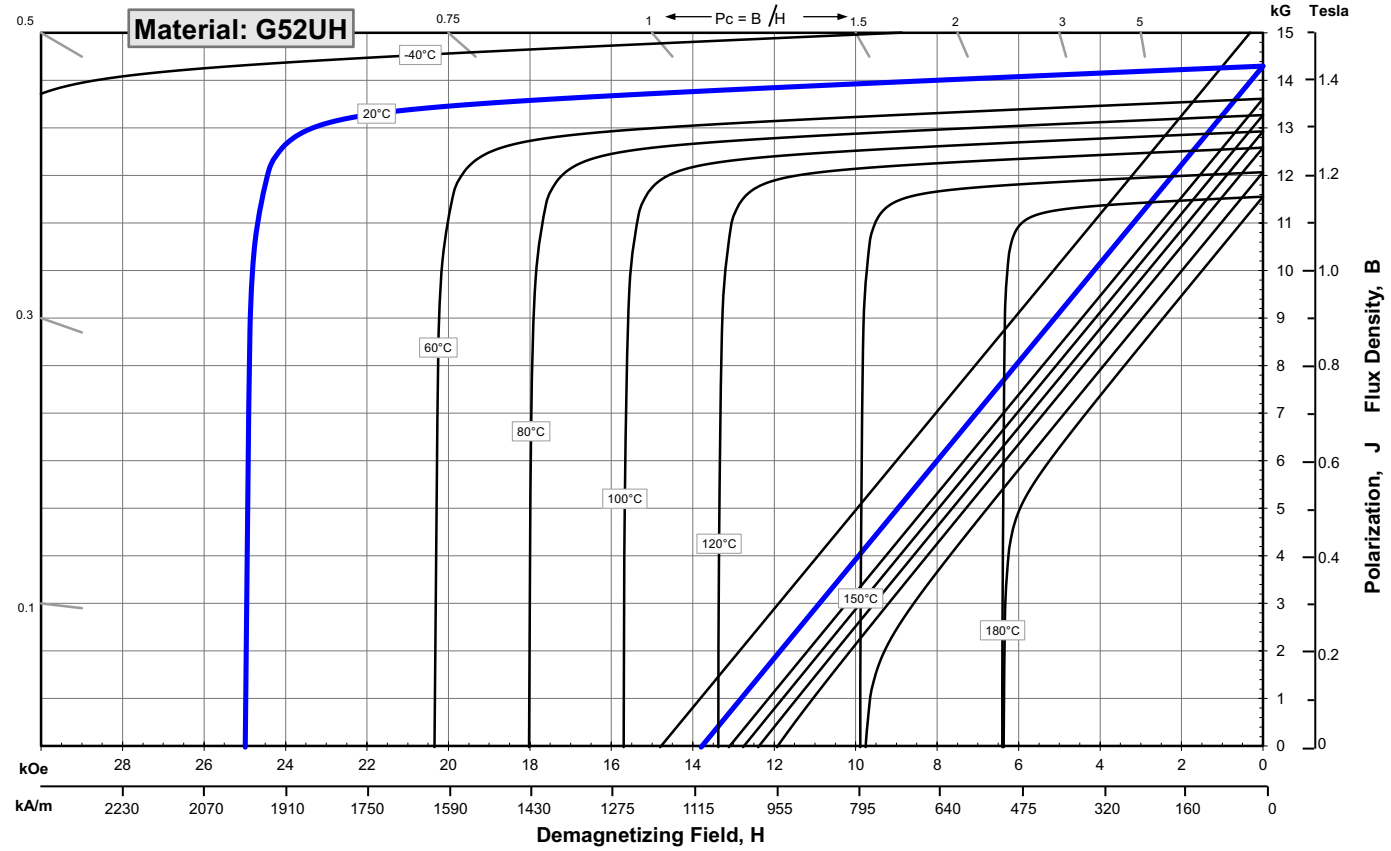
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	14,100	14,300	14,500
		mT	1410	1430	1450
	H_{cB}, Coercivity	Oersteds	13,400	13,650	13,900
		kA/m	1067	1086	1106
	H_{cJ}, Intrinsic Coercivity	Oersteds	25,000		
		kA/m	1,990		
	BHmax, Maximum Energy Product	MGOe	47	50	52
		kJ/m^3	374	394	414

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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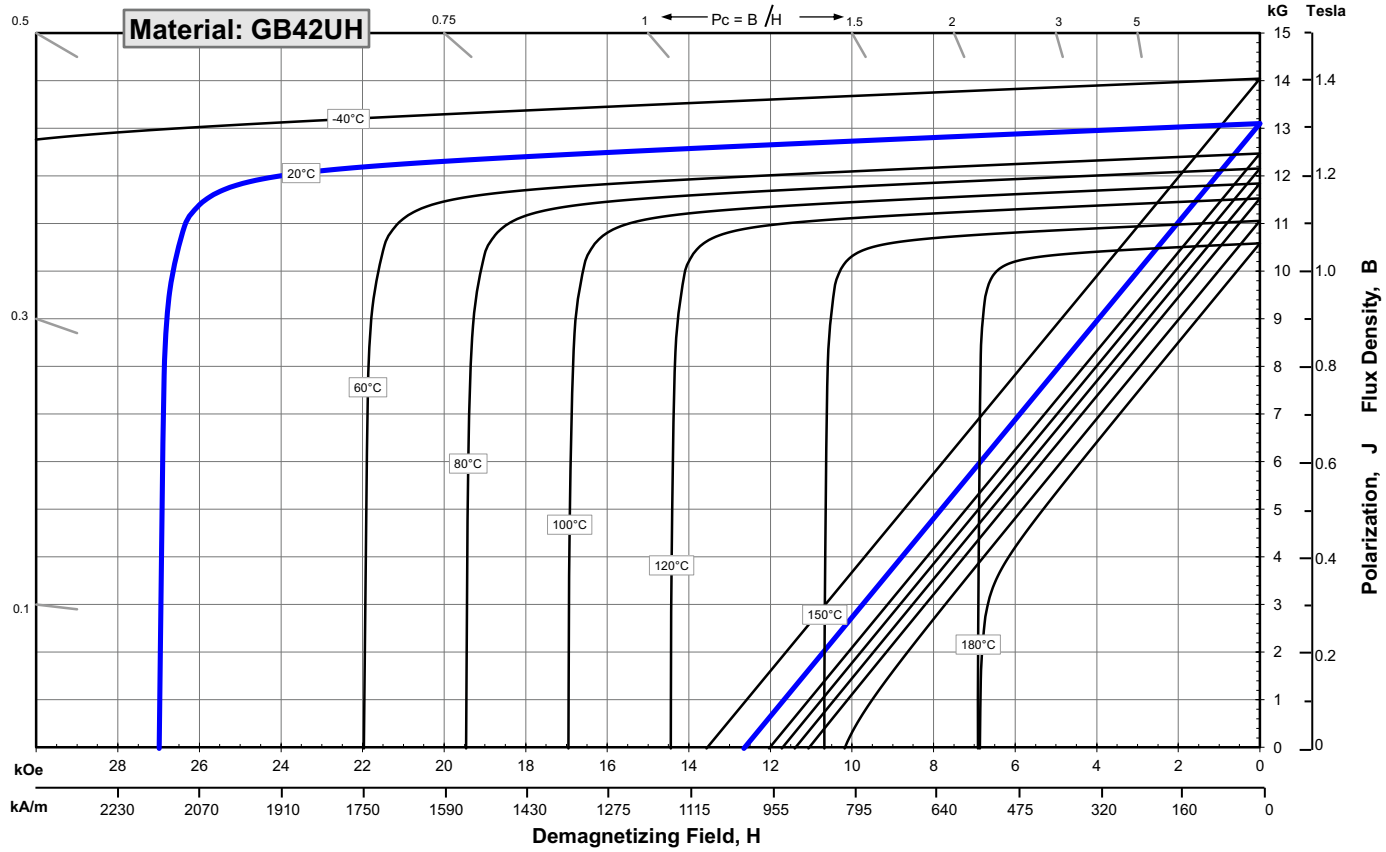
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,800	13,100	13,400
		mT	1280	1310	1340
	H_{cB}, Coercivity	Oersteds	12,000	12,400	12,800
		kA/m	955	987	1019
	H_{cJ}, Intrinsic Coercivity	Oersteds	27,000		
		kA/m	2,149		
	BHmax, Maximum Energy Product	MGOe	39	42	44
		kJ/m^3	310	330	350

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	43	45	46
		kJ/m^3	342	354	366

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
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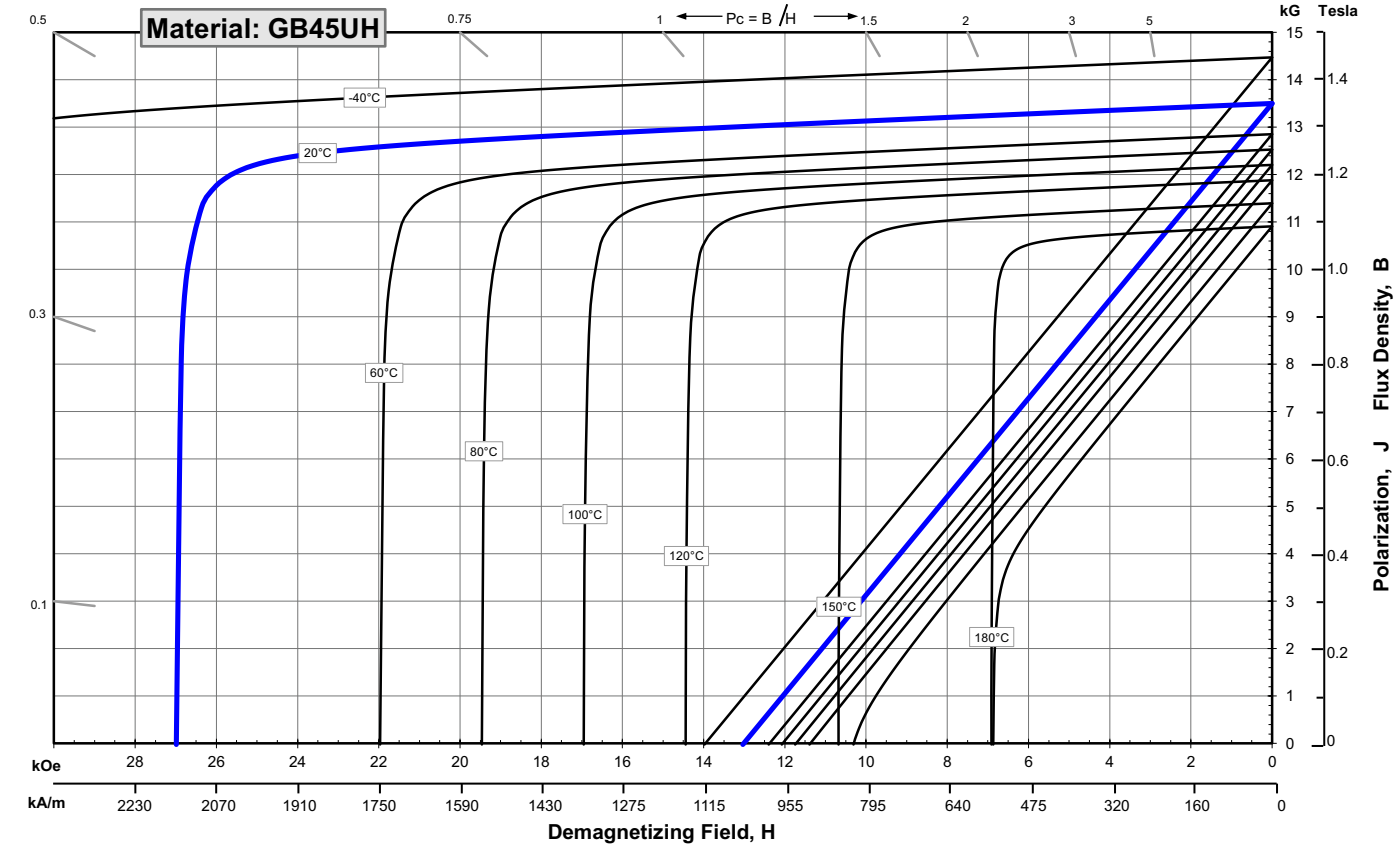

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GB48UH

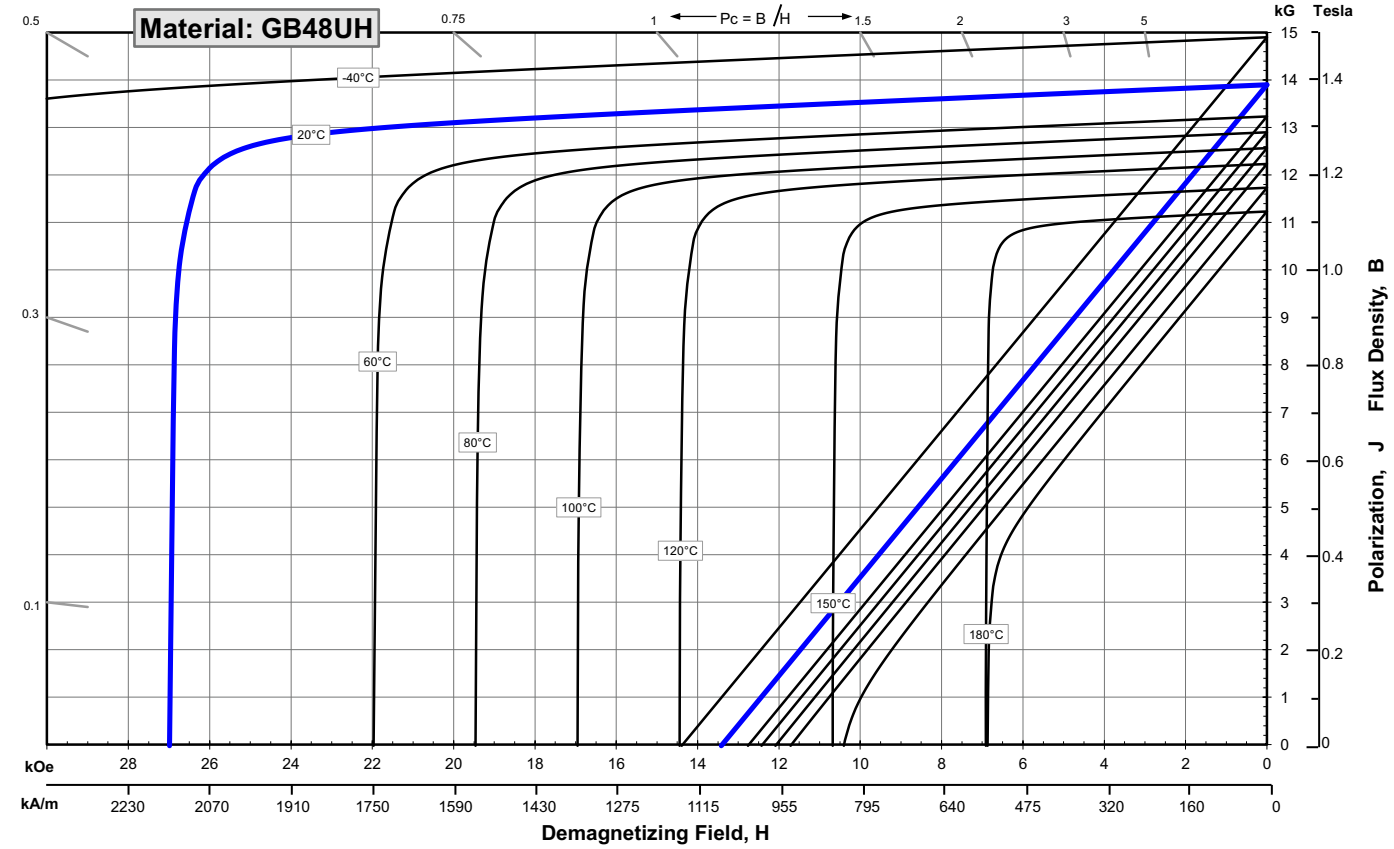
Sintered Neodymium-Iron-Boron Magnets

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	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	45	47	49
		kJ/m^3	358	374	390

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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.

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GB50UH

Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	46	49	51
		kJ/m^3	366	386	406

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 ºC
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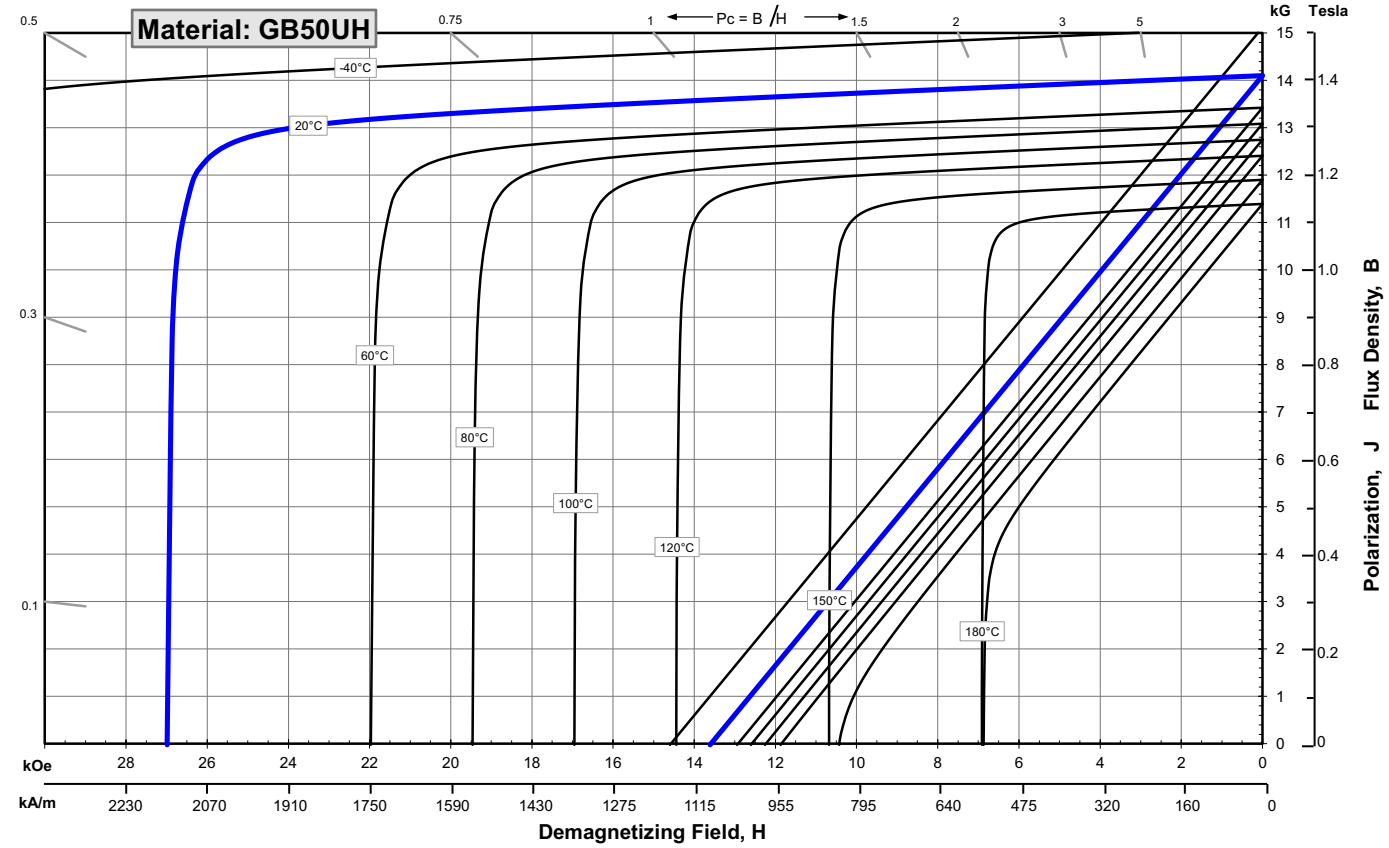

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G30EH

Sintered Neodymium-Iron-Boron Magnets

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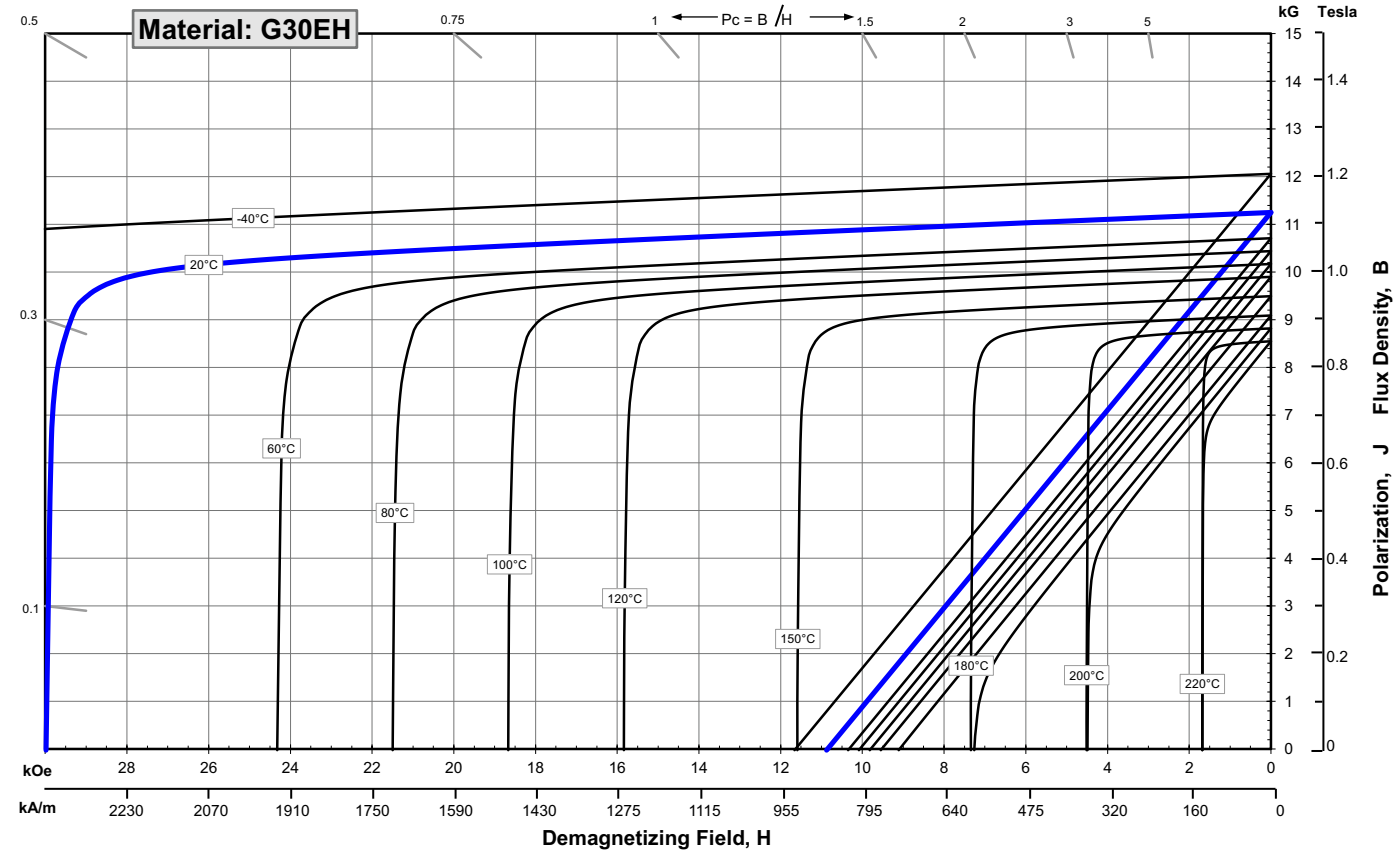
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	10,800	11,250	11,700
		mT	1080	1125	1170
	H_{cB}, Coercivity	Oersteds	10,200	10,700	11,200
		kA/m	812	852	891
	H_{cJ}, Intrinsic Coercivity	Oersteds	30,000		
		kA/m	2,388		
	BHmax, Maximum Energy Product	MGOe	28	31	33
		kJ/m³	223	243	263

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10⁻⁶	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G33EH

Sintered Neodymium-Iron-Boron Magnets

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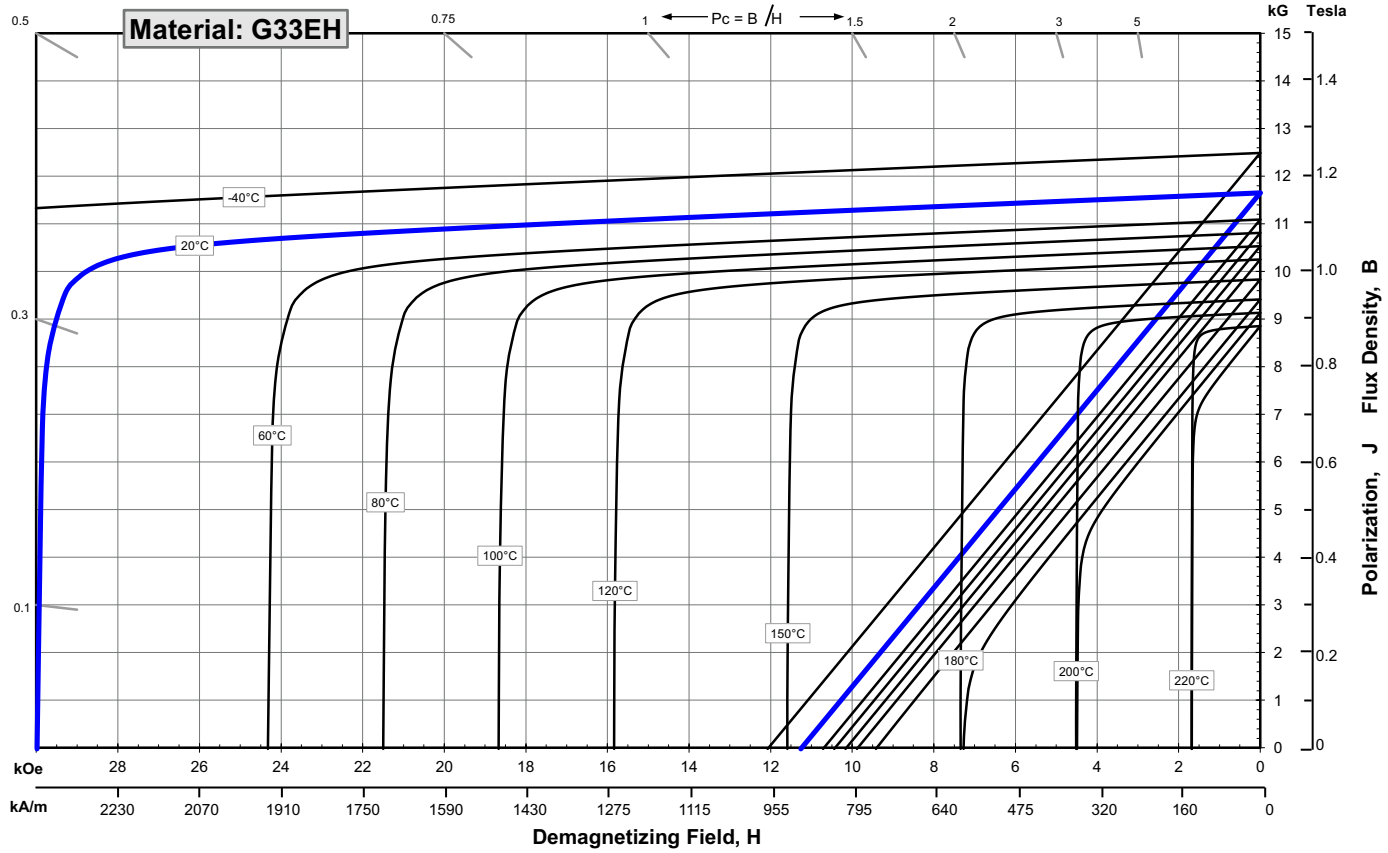
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	11,300	11,650	12,000
		mT	1130	1165	1200
	H_{cB}, Coercivity	Oersteds	10,300	10,900	11,500
		kA/m	820	867	915
	H_{cJ}, Intrinsic Coercivity	Oersteds	30,000		
		kA/m	2,388		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G35EH

Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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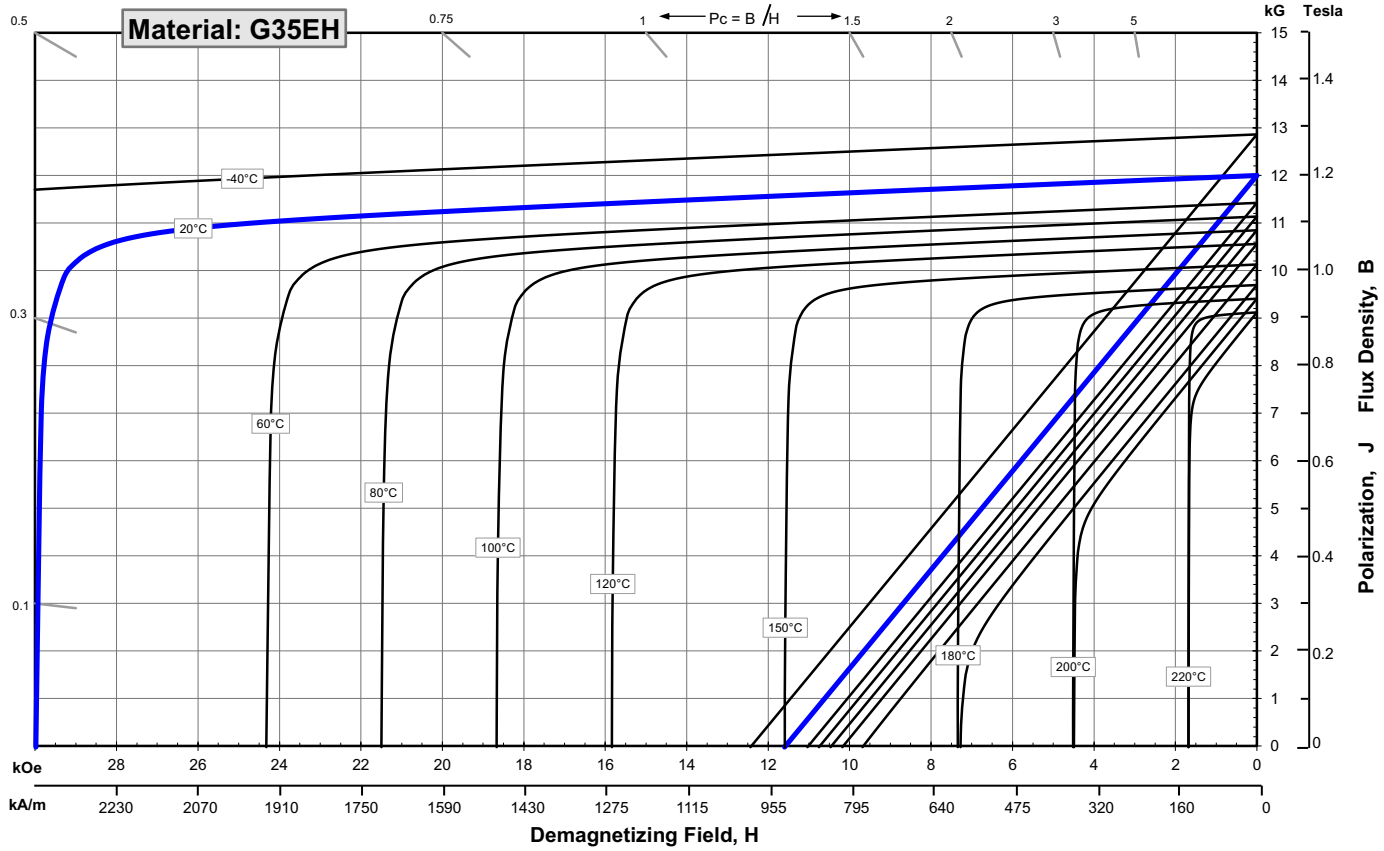

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Sintered Neodymium-Iron-Boron Magnets

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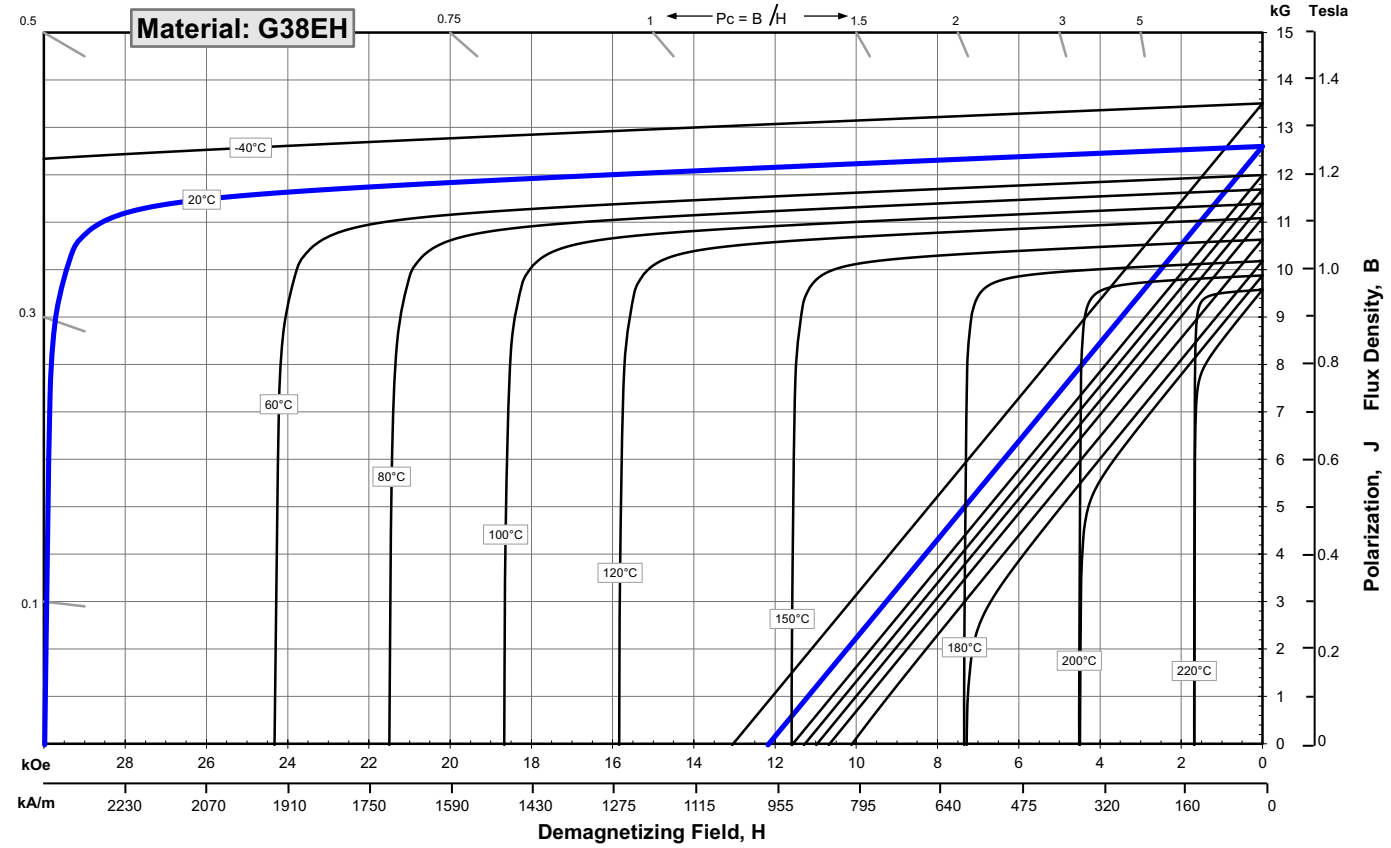
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,200	12,600	13,000
		mT	1220	1260	1300
	H_{cB}, Coercivity	Oersteds	11,000	11,700	12,400
		kA/m	876	931	987
	H_{cJ}, Intrinsic Coercivity	Oersteds	30,000		
		kA/m	2,388		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G40EH

Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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	30,000		
		kA/m	2,388		
	BHmax, Maximum Energy Product	MGOe	38	40	42
		kJ/m^3	302	318	334

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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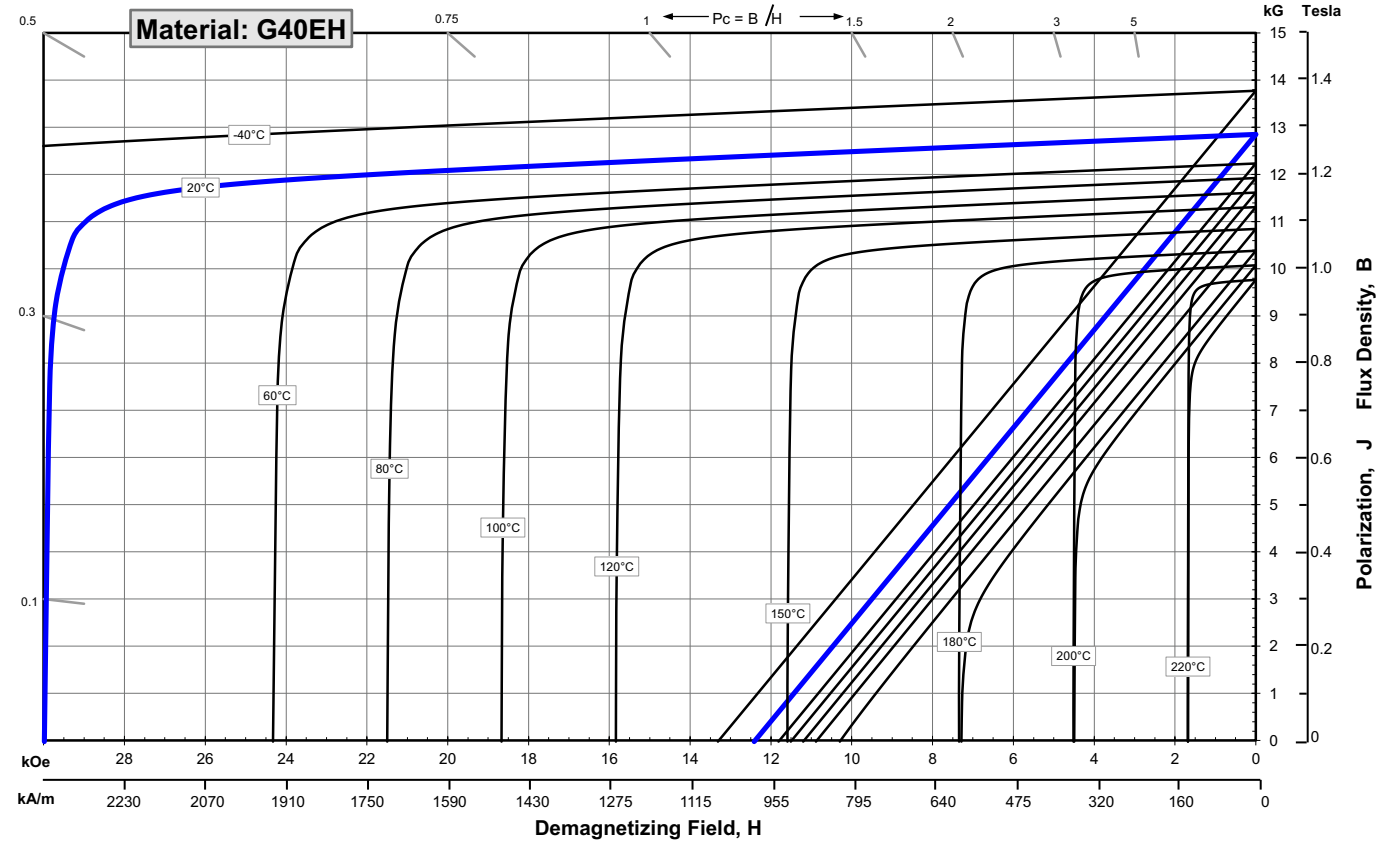

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G42EH

Sintered Neodymium-Iron-Boron Magnets

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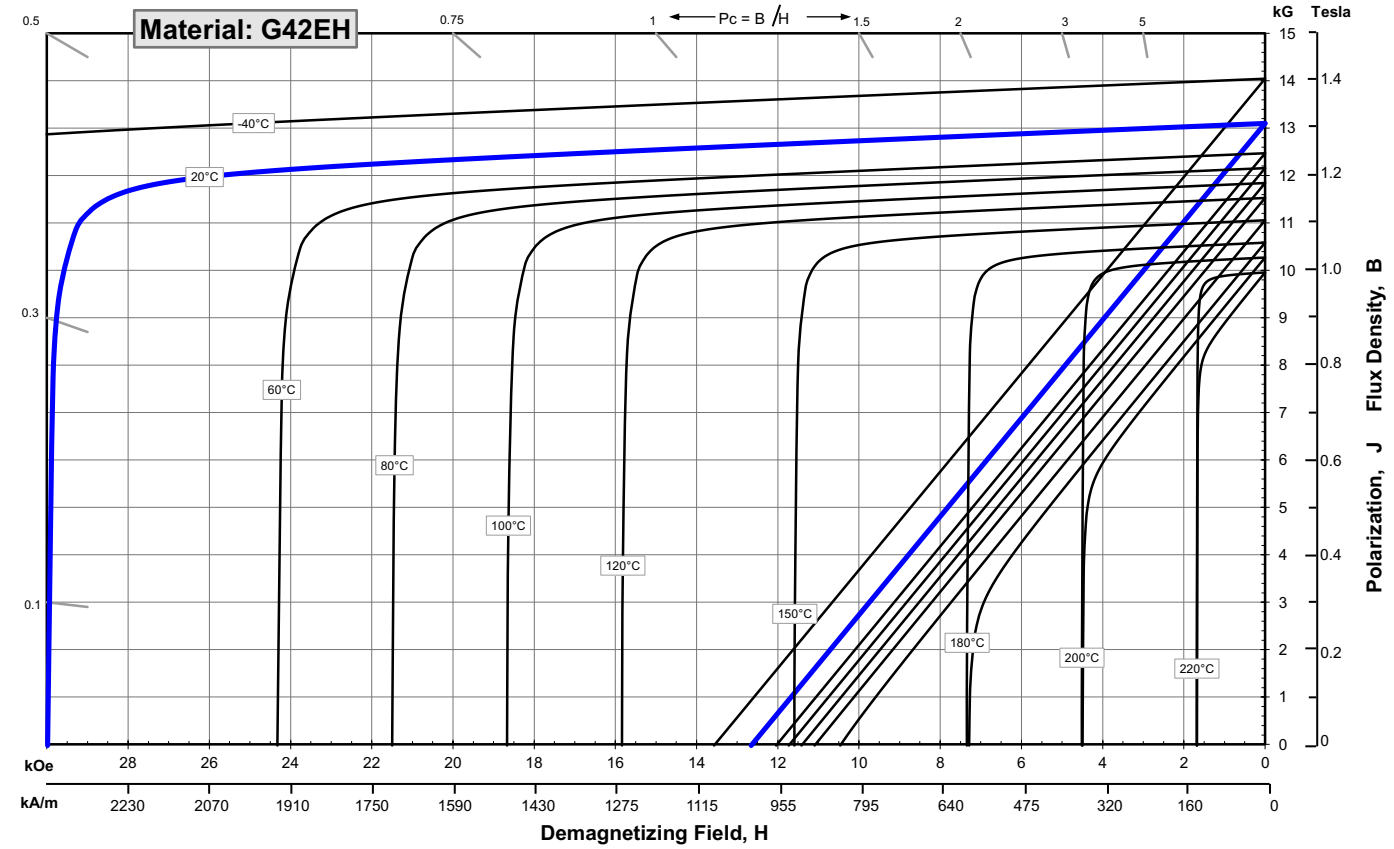
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,800	13,100	13,400
		mT	1280	1310	1340
	H_{cB}, Coercivity	Oersteds	12,000	12,400	12,800
		kA/m	955	987	1019
	H_{cJ}, Intrinsic Coercivity	Oersteds	30,000		
		kA/m	2,388		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G44EH

Sintered Neodymium-Iron-Boron Magnets

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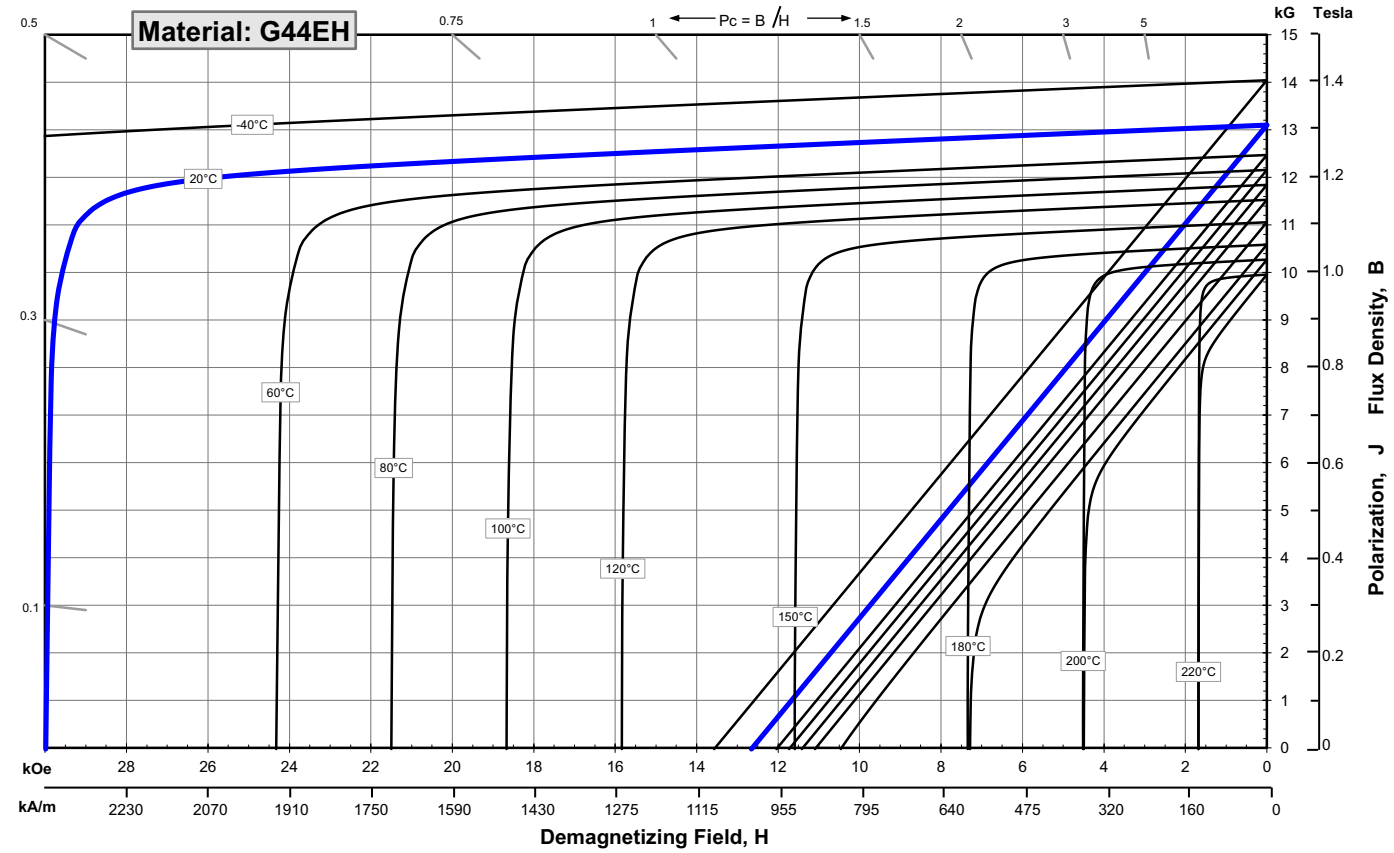
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,900	13,100	13,400
		mT	1290	1310	1340
	H_{cB}, Coercivity	Oersteds	12,200	12,500	12,800
		kA/m	971	995	1019
	H_{cJ}, Intrinsic Coercivity	Oersteds	30,000		
		kA/m	2,388		
	BHmax, Maximum Energy Product	MGOe	40	43	45
		kJ/m^3	318	338	358

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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G46EH

Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	43	46	48
		kJ/m^3	342	362	382

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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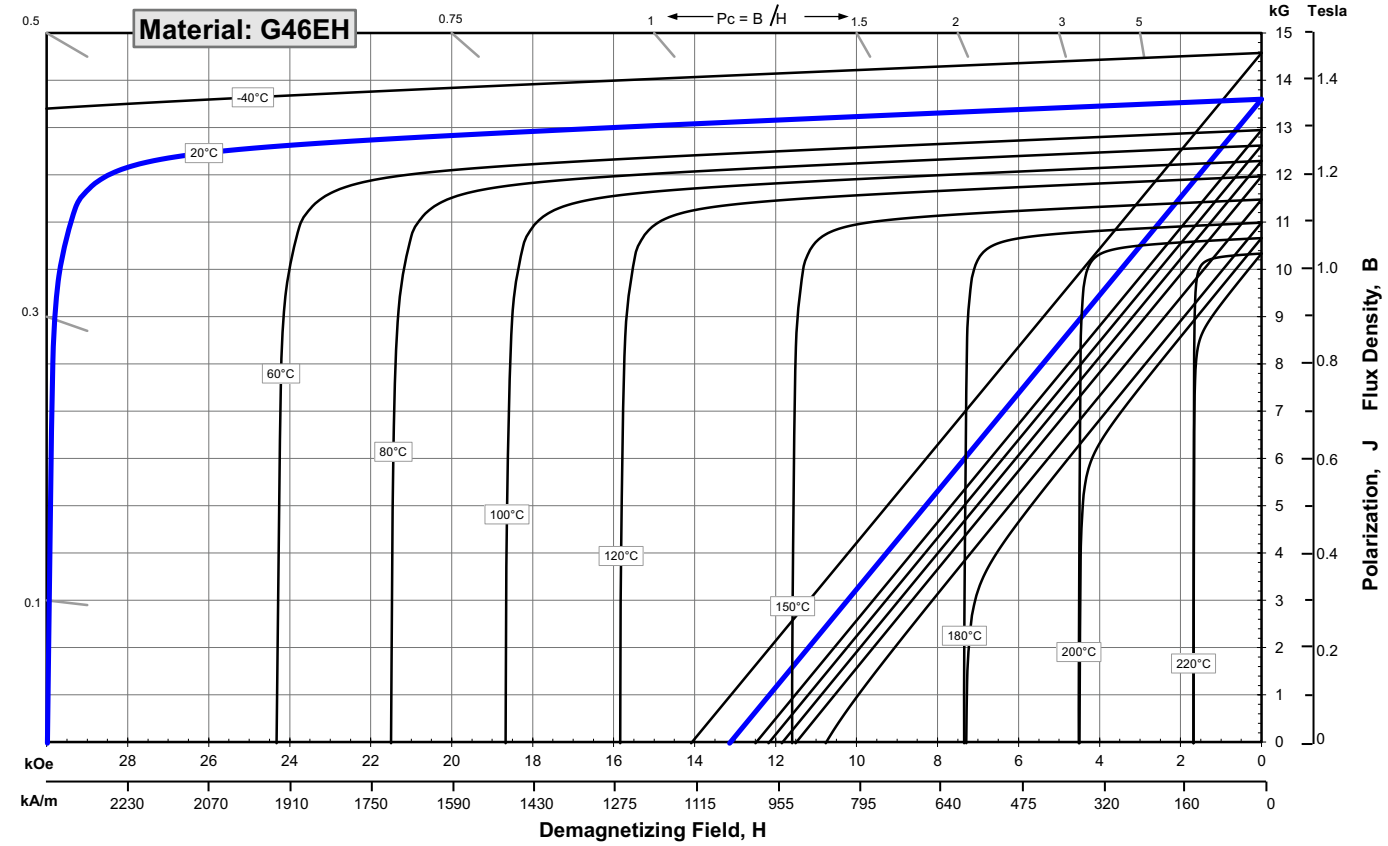

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G48EH

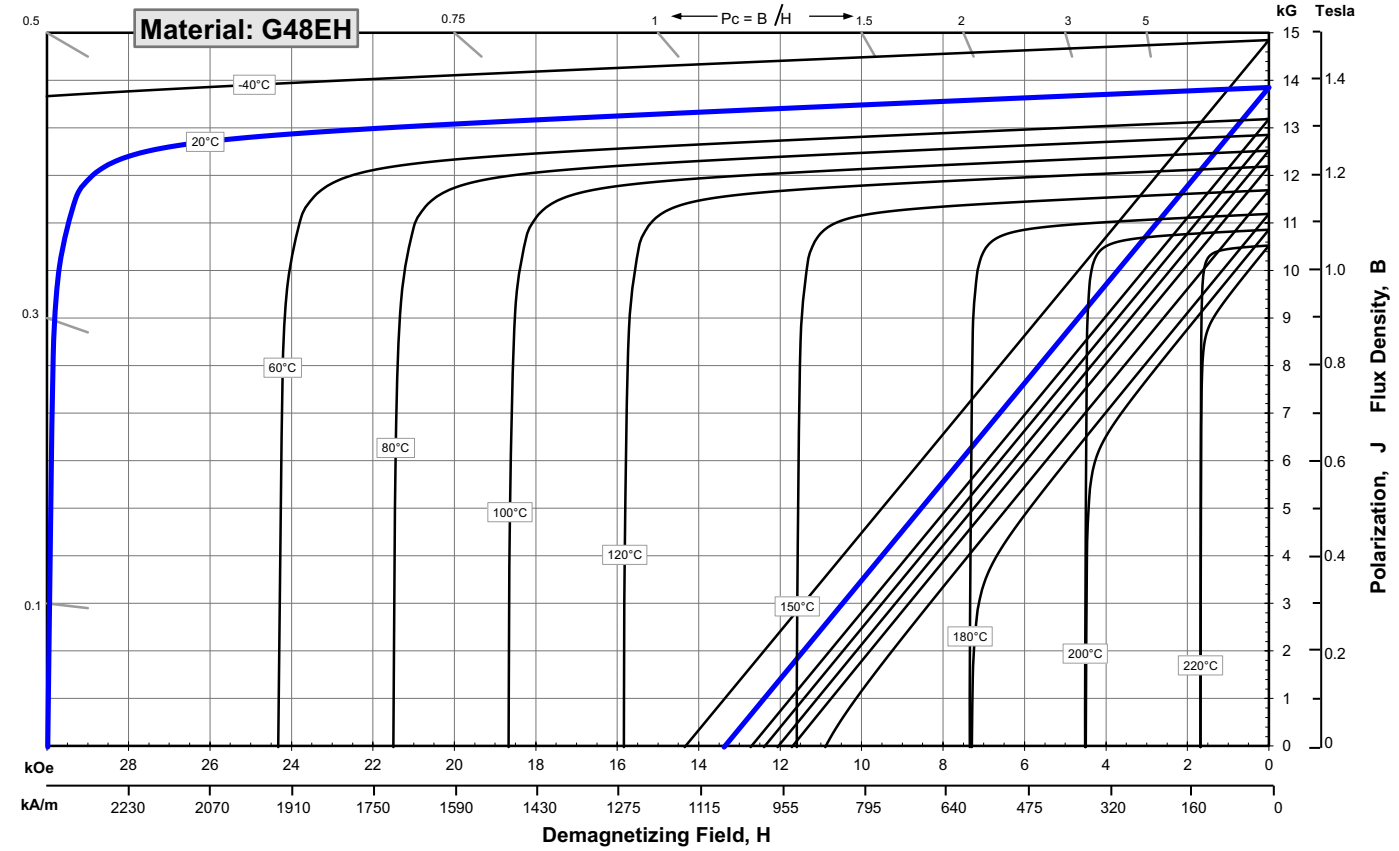
Sintered Neodymium-Iron-Boron Magnets

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	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	44	47	49
		kJ/m^3	350	370	390

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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 Hcj.
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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ARNOLD MAGNETIC TECHNOLOGIES

GB38EH

Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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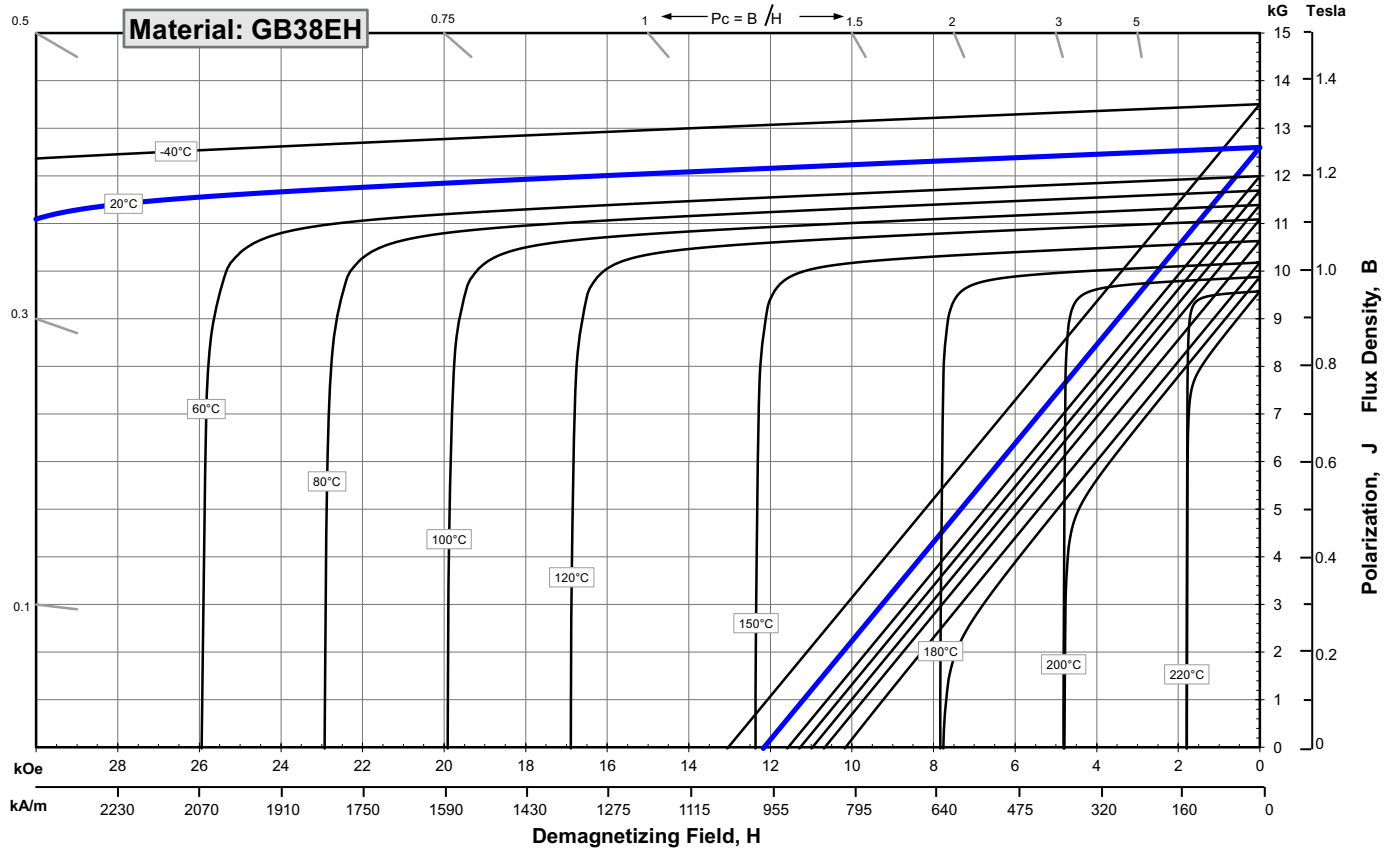

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Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	38	40	42
		kJ/m^3	302	318	334

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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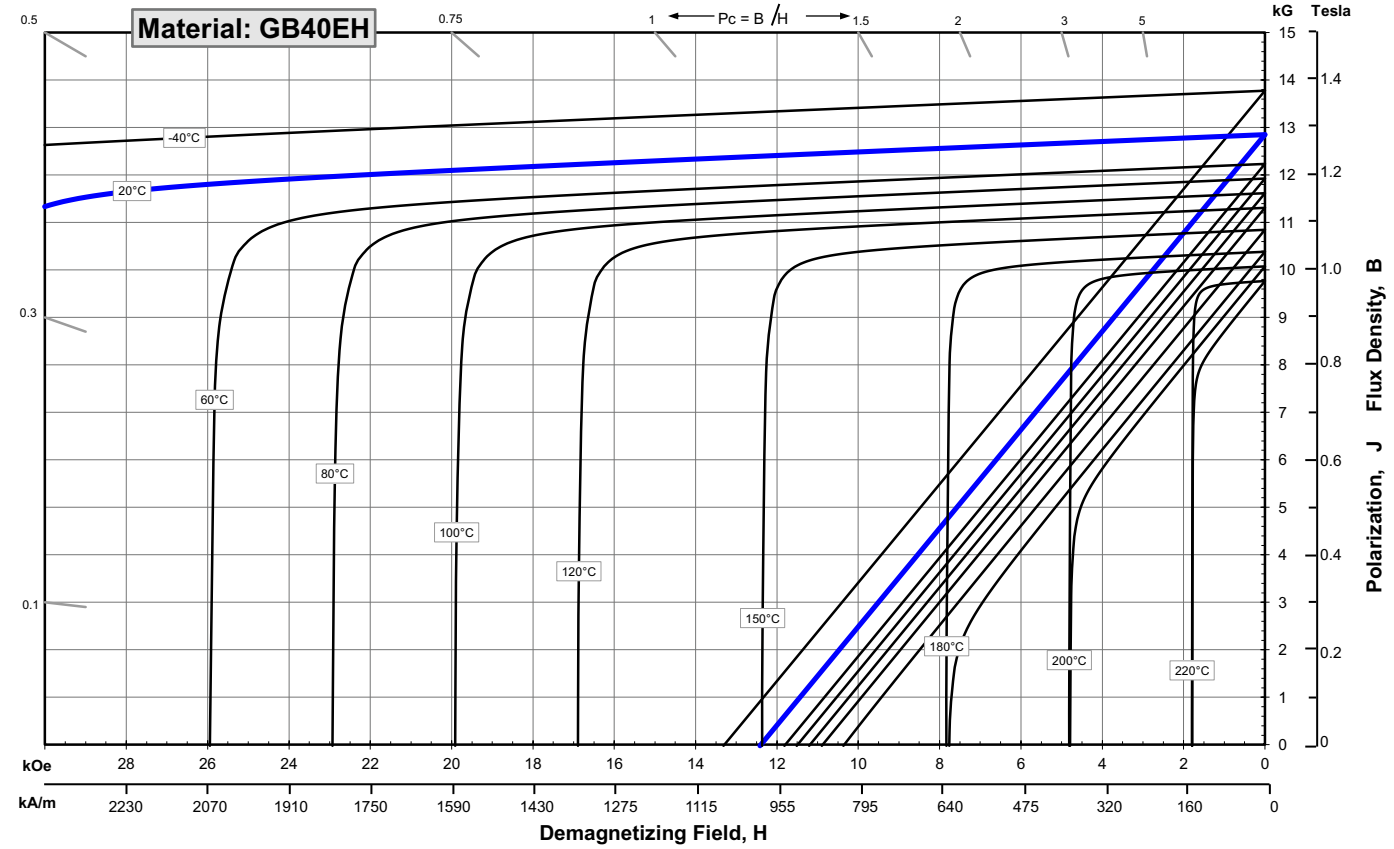

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Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	40	43	45
		kJ/m^3	318	338	358

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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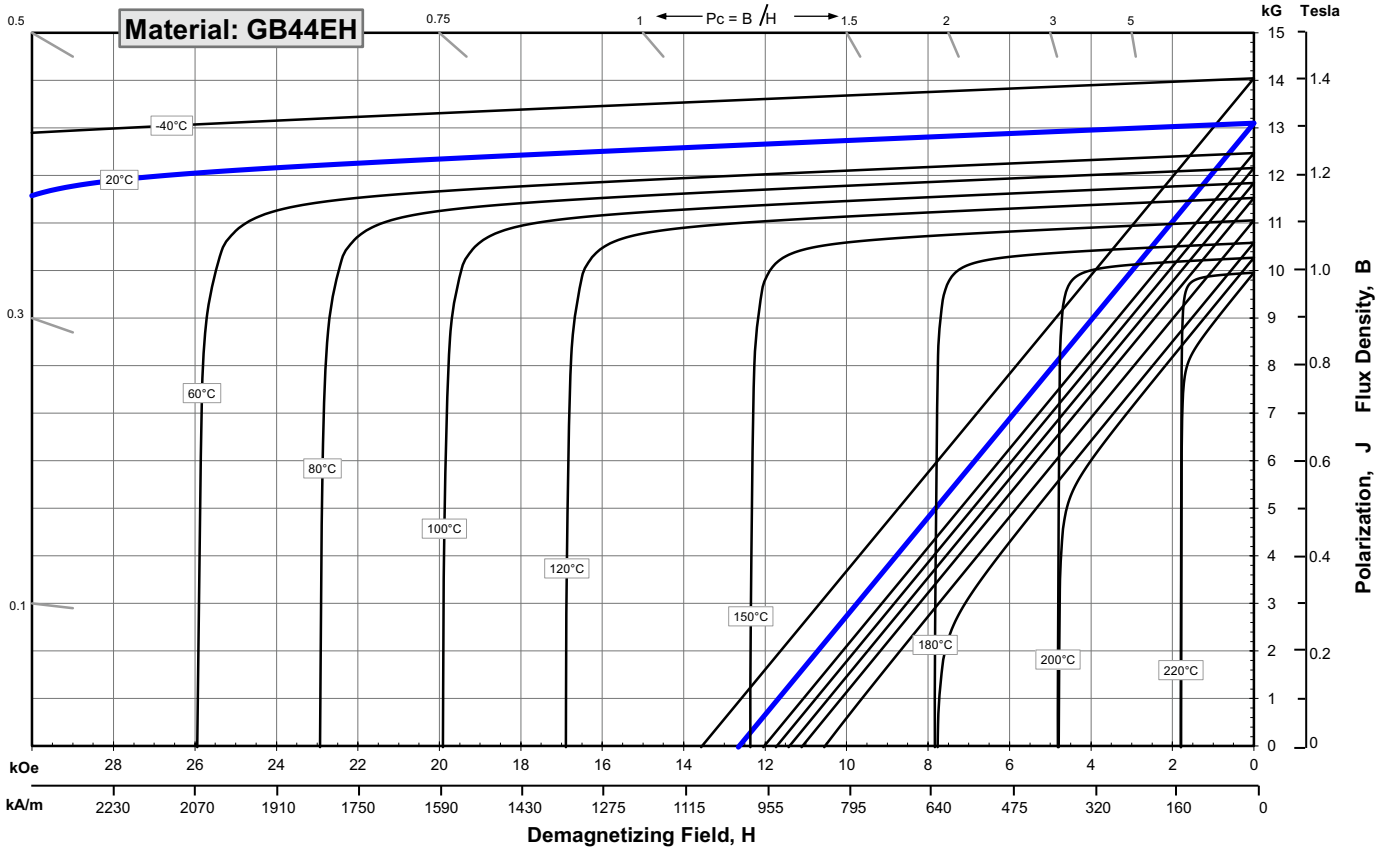

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Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	43	46	48
		kJ/m^3	342	362	382

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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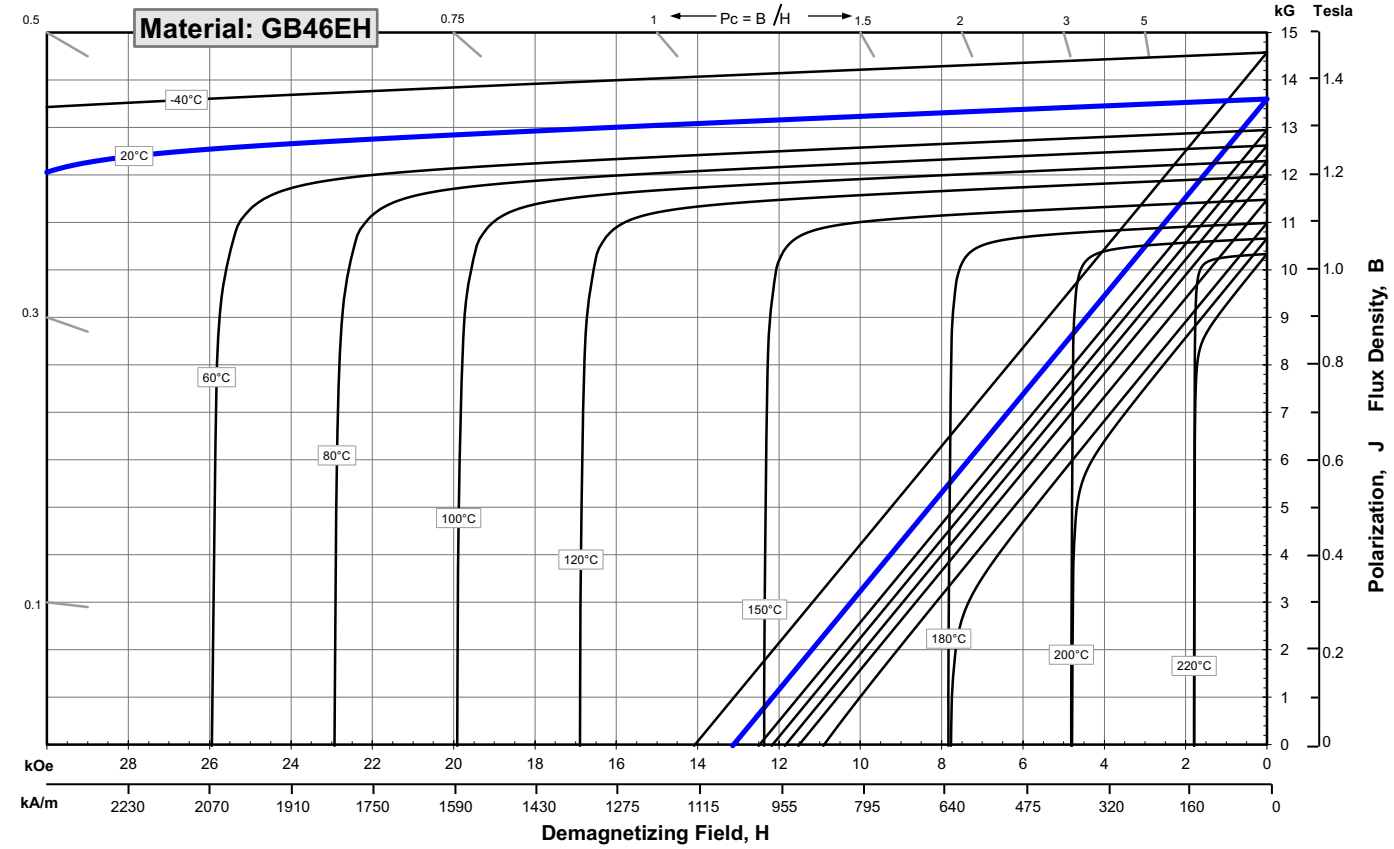

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Sintered Neodymium-Iron-Boron Magnets

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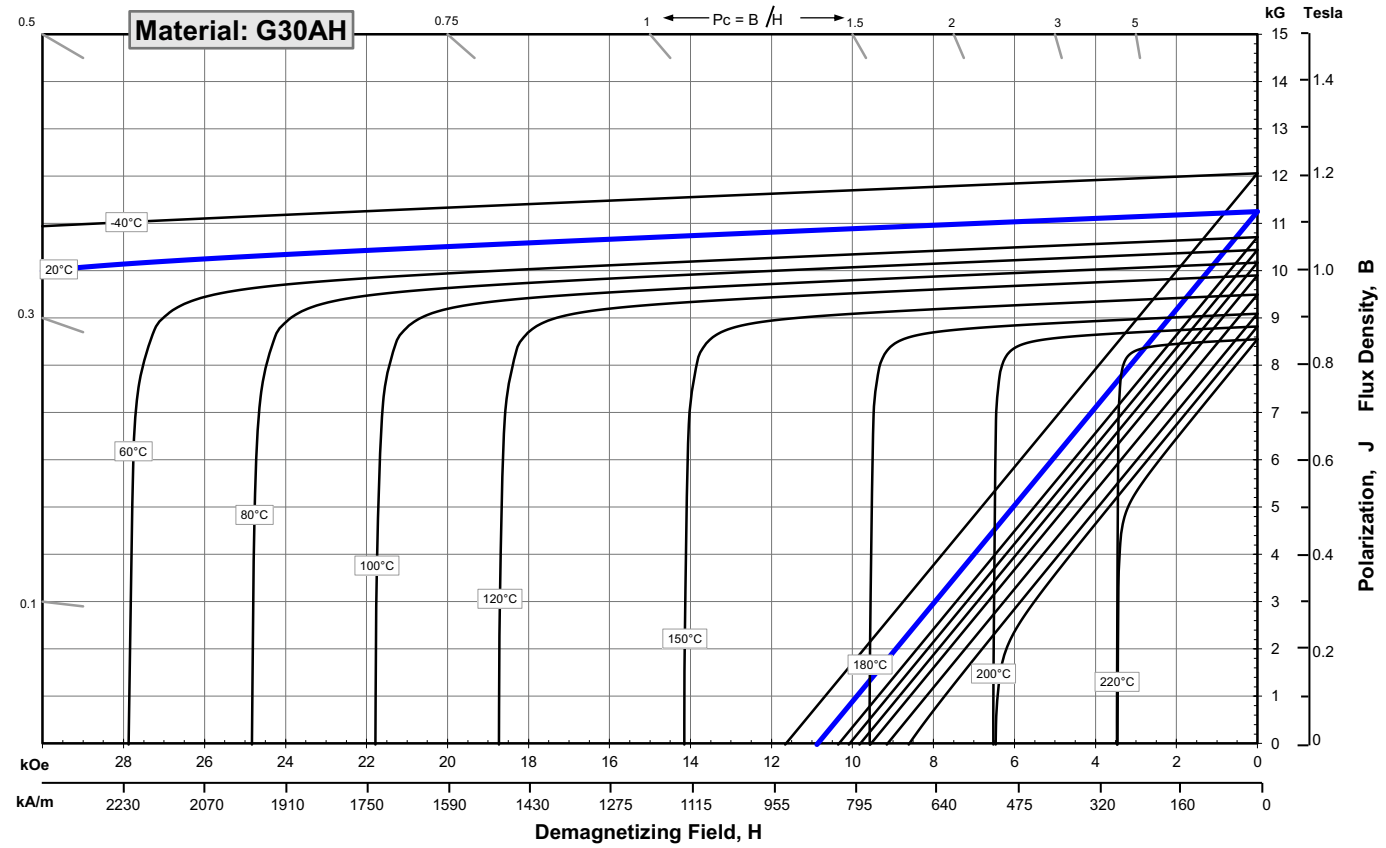
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	10,800	11,250	11,700
		mT	1080	1125	1170
	H_{cB}, Coercivity	Oersteds	10,200	10,700	11,200
		kA/m	812	852	891
	H_{cJ}, Intrinsic Coercivity	Oersteds	34,000		
		kA/m	2,706		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.45	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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Sintered Neodymium-Iron-Boron Magnets

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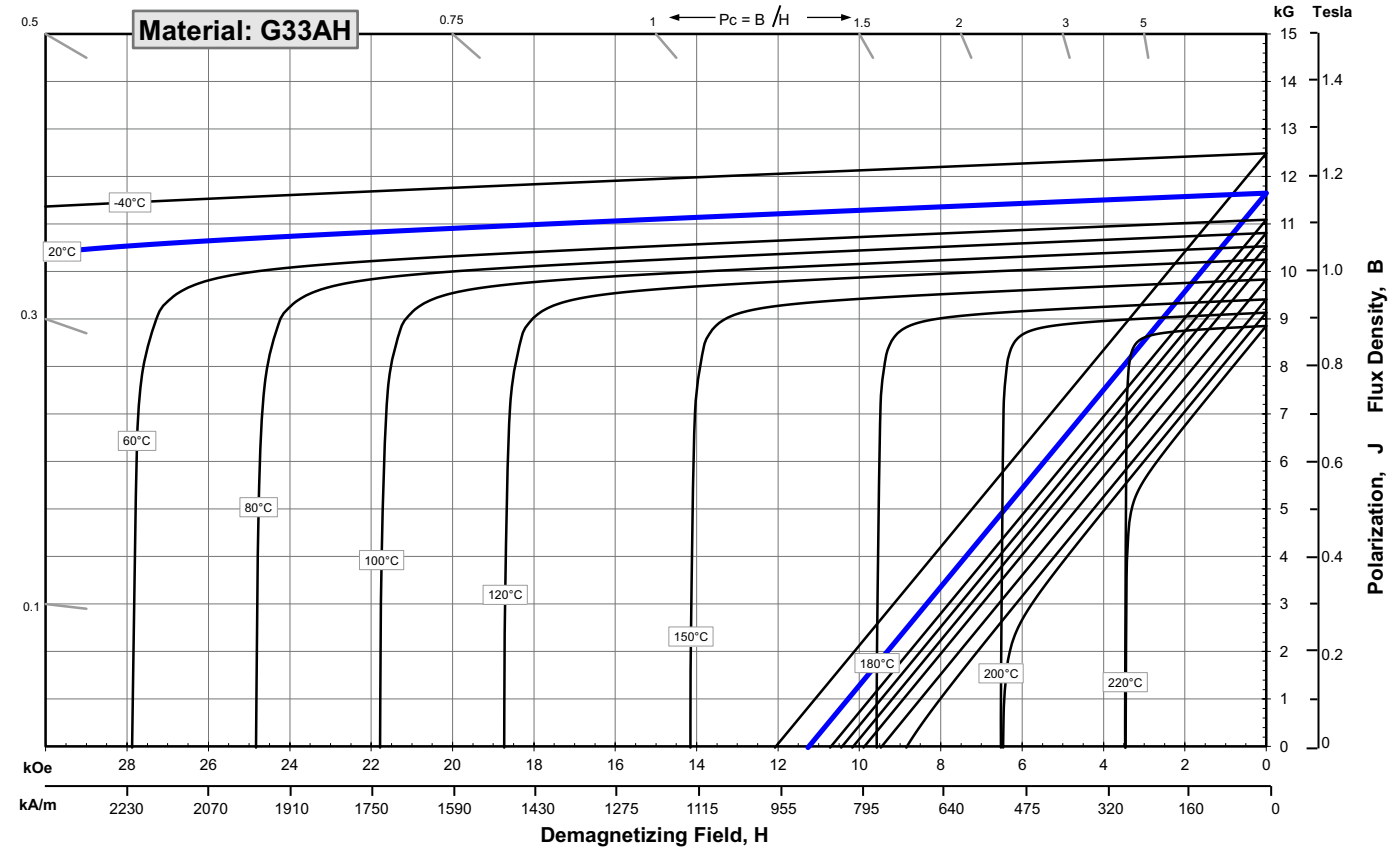
	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	11,300	11,650	12,000
		mT	1130	1165	1200
	H_{cB}, Coercivity	Oersteds	10,300	10,900	11,500
		kA/m	820	867	915
	H_{cJ}, Intrinsic Coercivity	Oersteds	34,000		
		kA/m	2,706		
	BHmax, Maximum Energy Product	MGOe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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.45	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	33	35	37
		kJ/m^3	263	279	295

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.45	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 ºC
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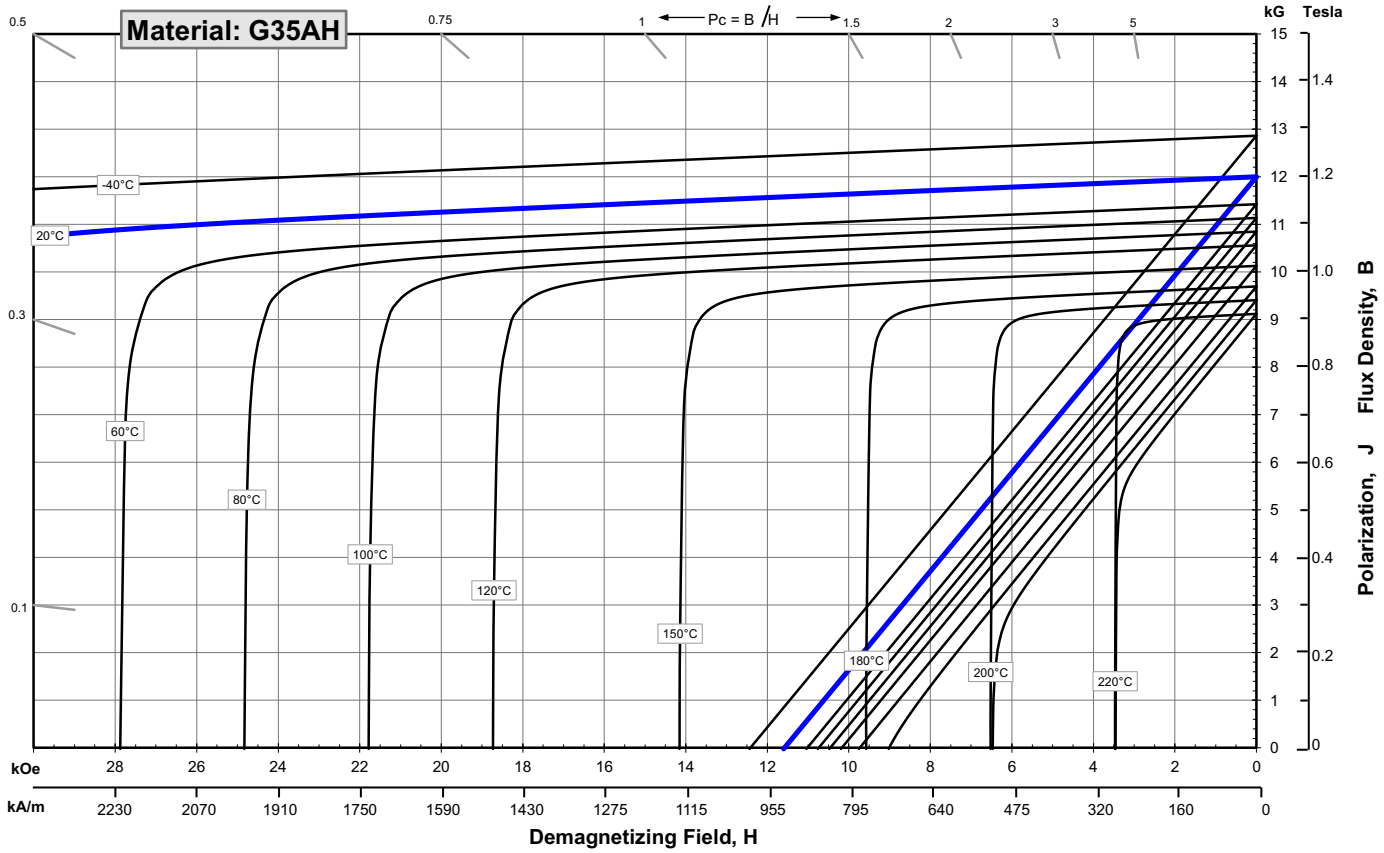

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,200	12,600	13,000
		mT	1220	1260	1300
	H_{cB}, Coercivity	Oersteds	11,000	11,700	12,400
		kA/m	876	931	987
	H_{cJ}, Intrinsic Coercivity	Oersteds	34,000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

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.45	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 ºC
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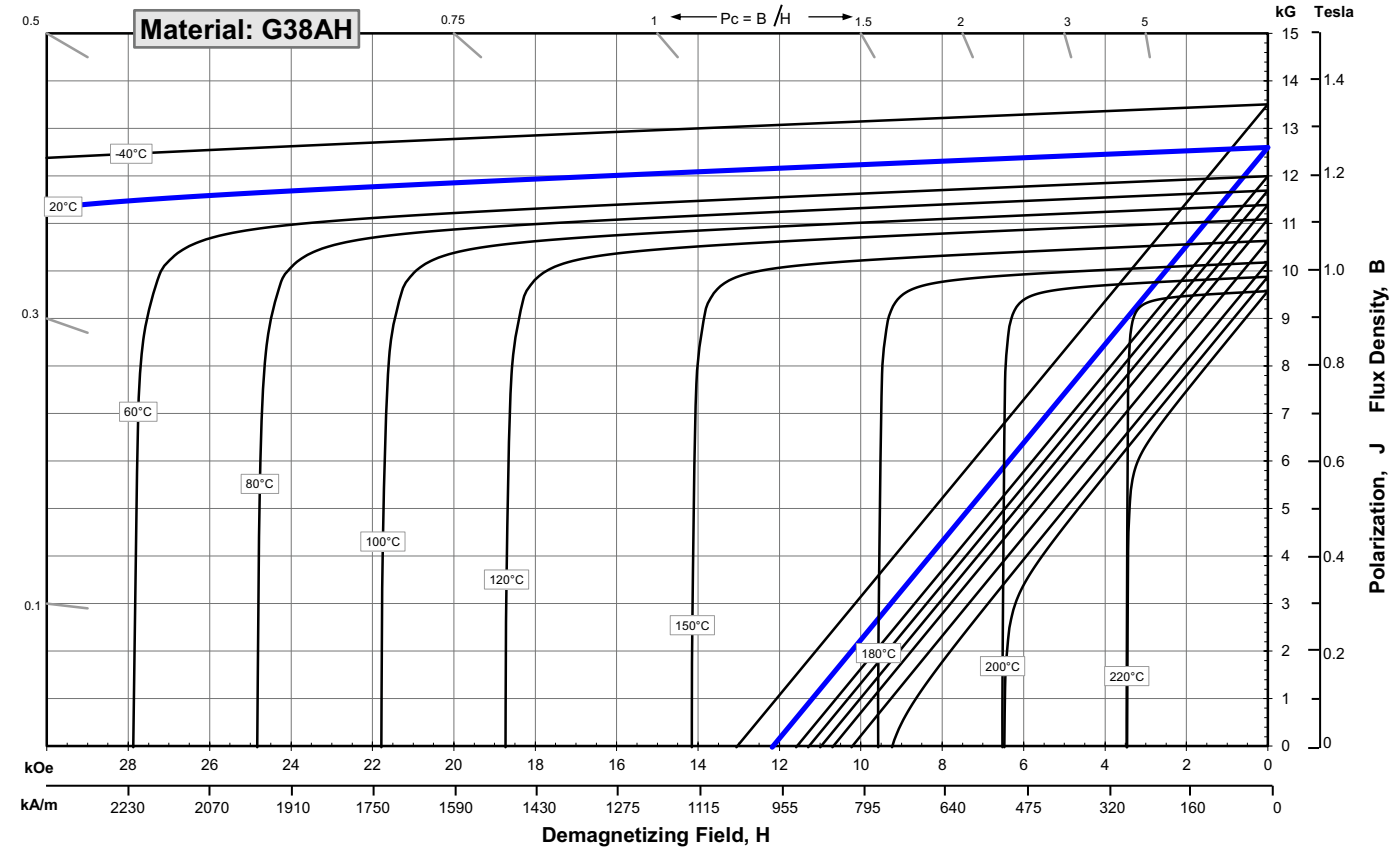

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,500	12,850	13,200
		mT	1250	1285	1320
	H_{cB}, Coercivity	Oersteds	11,500	12,050	12,600
		kA/m	915	959	1003
	H_{cJ}, Intrinsic Coercivity	Oersteds	34,000		
		kA/m	2,706		
	BHmax, Maximum Energy Product	MGOe	38	40	42
		kJ/m^3	302	318	334

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.45	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 ºC
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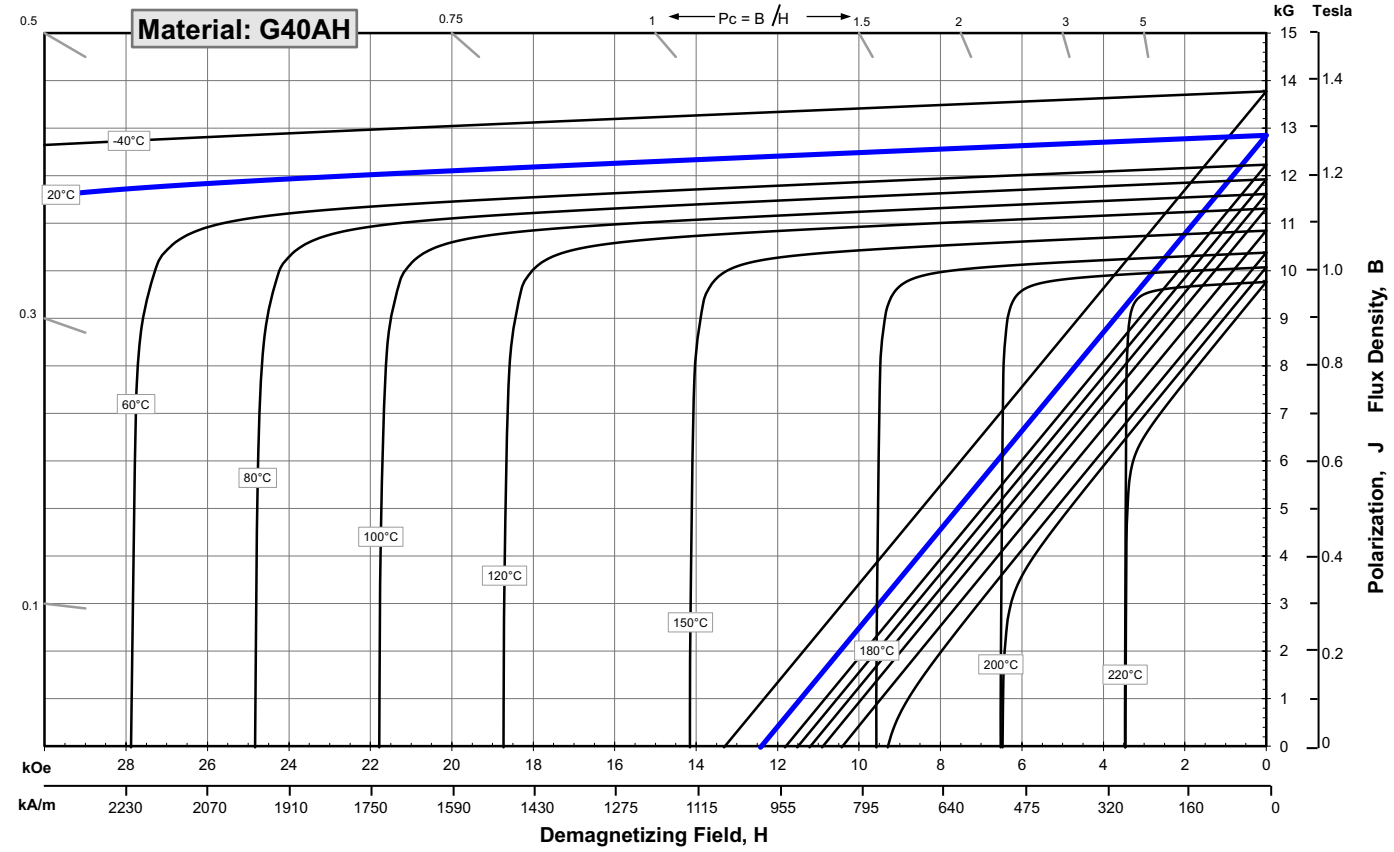

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Rev. 190517

G38AH

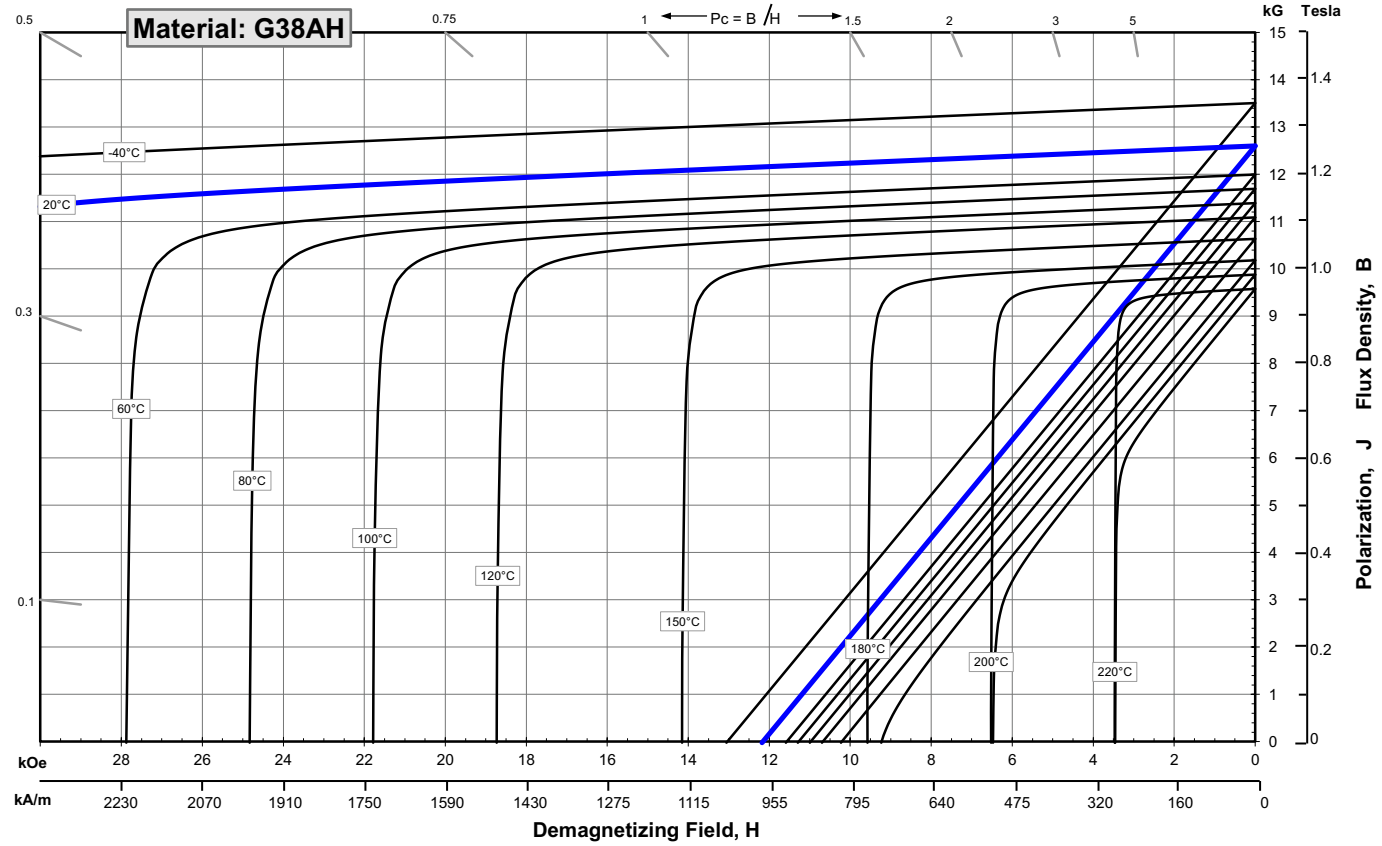
Sintered Neodymium-Iron-Boron Magnets

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	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	36	39	41
		kJ/m^3	287	307	326

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.45	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 ºC
(2) Between 20 and 200 ºC (3) Between 20 and 140 ºC



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 Hcj.
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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GS40EH

Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**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		
	BHmax, Maximum Energy Product	MGOe	38	41	43
		kJ/m^3	302	322	342

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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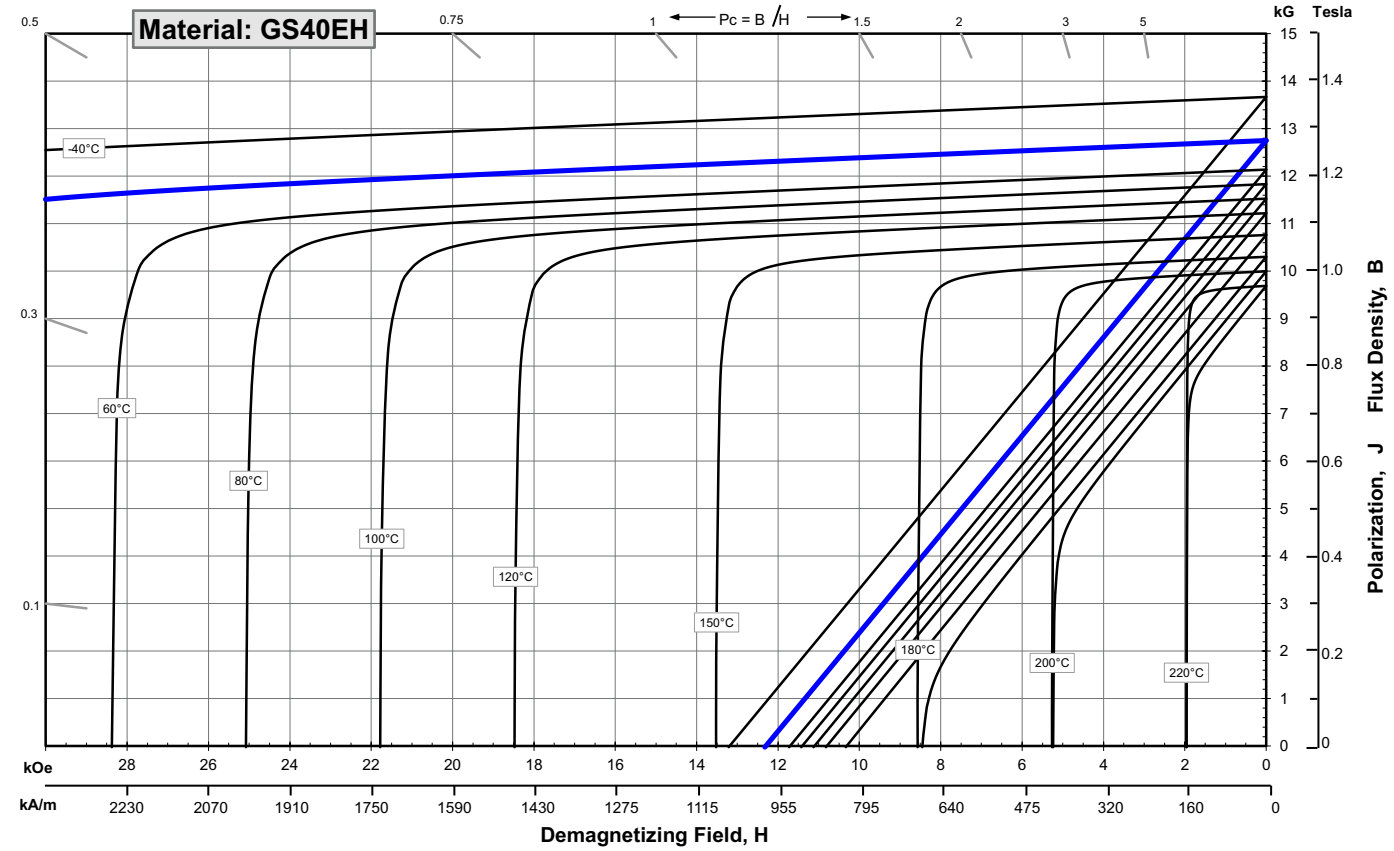

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GS44EH

Sintered Neodymium-Iron-Boron Magnets

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	13,000	13,200	13,400
		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		
	BHmax, Maximum Energy Product	MGOe	41	44	46
		kJ/m^3	326	346	366

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	0.11	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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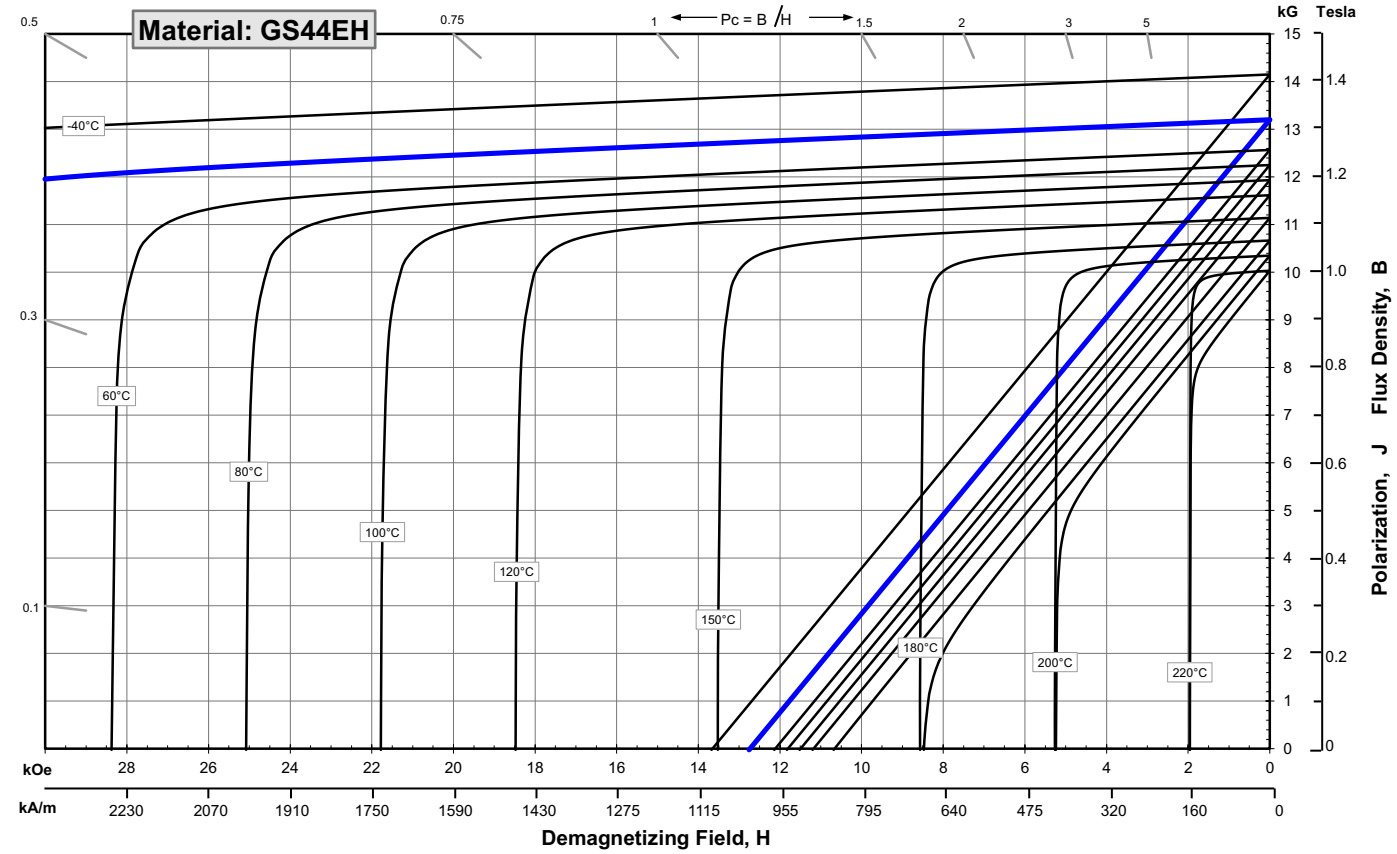

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	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	12,100	12,350	12,600
		mT	1210	1235	1260
	H_{cB}, Coercivity	Oersteds	11,500	11,750	12,000
		kA/m	915	935	955
	H_{cJ}, Intrinsic Coercivity	Oersteds	37,000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

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Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW• cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 ºC
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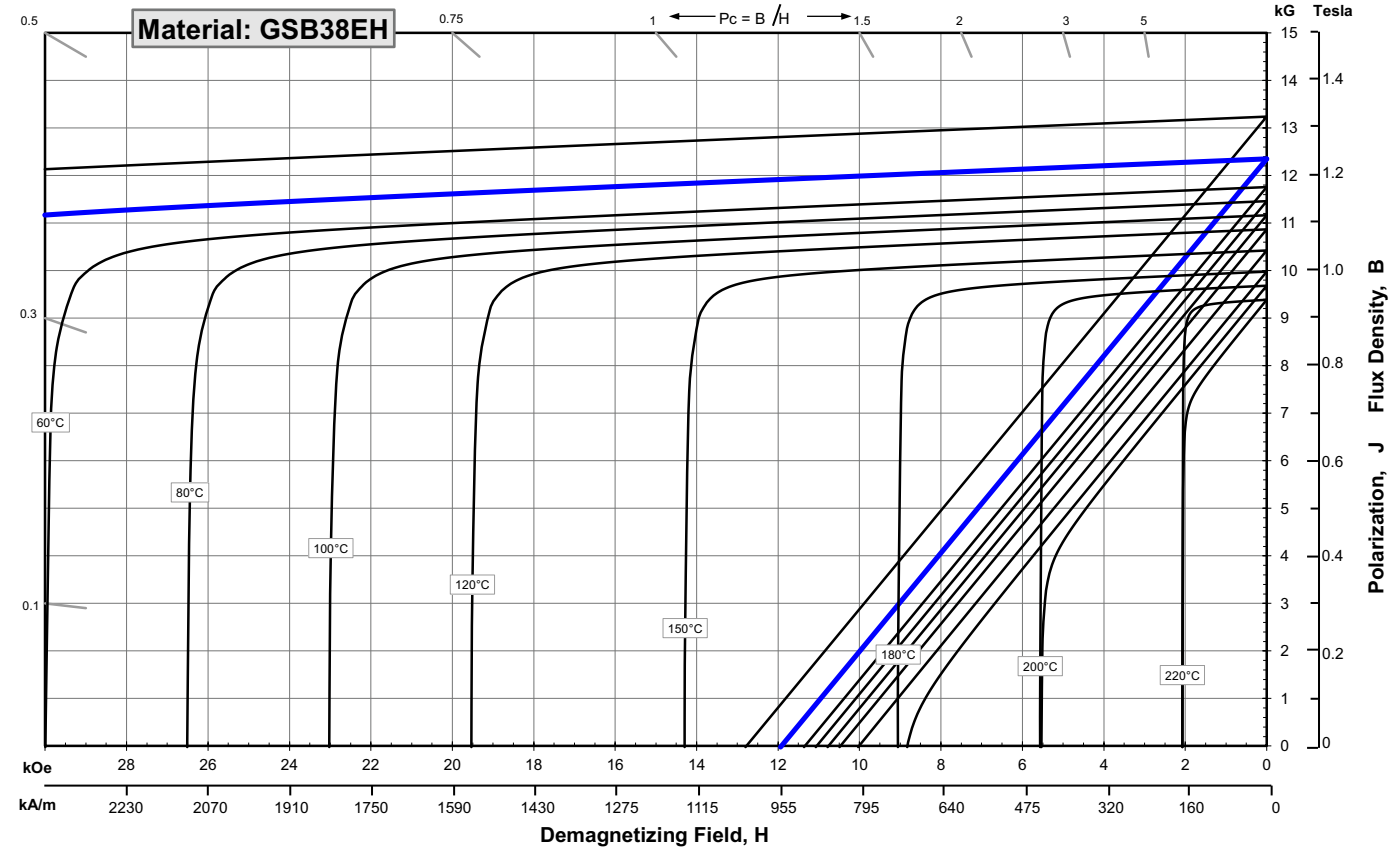

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	Characteristic	Units	min.	nominal	max.
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		kA/m	955	971	987
	H_{cJ}, Intrinsic Coercivity	Oersteds	37,000		
		kA/m	2,945		
	BHmax, Maximum Energy Product	MGOe	38	41	43
		kJ/m^3	302	324	345

	Characteristic	Units	C //	C ^
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.47	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7.5	-0.1
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		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

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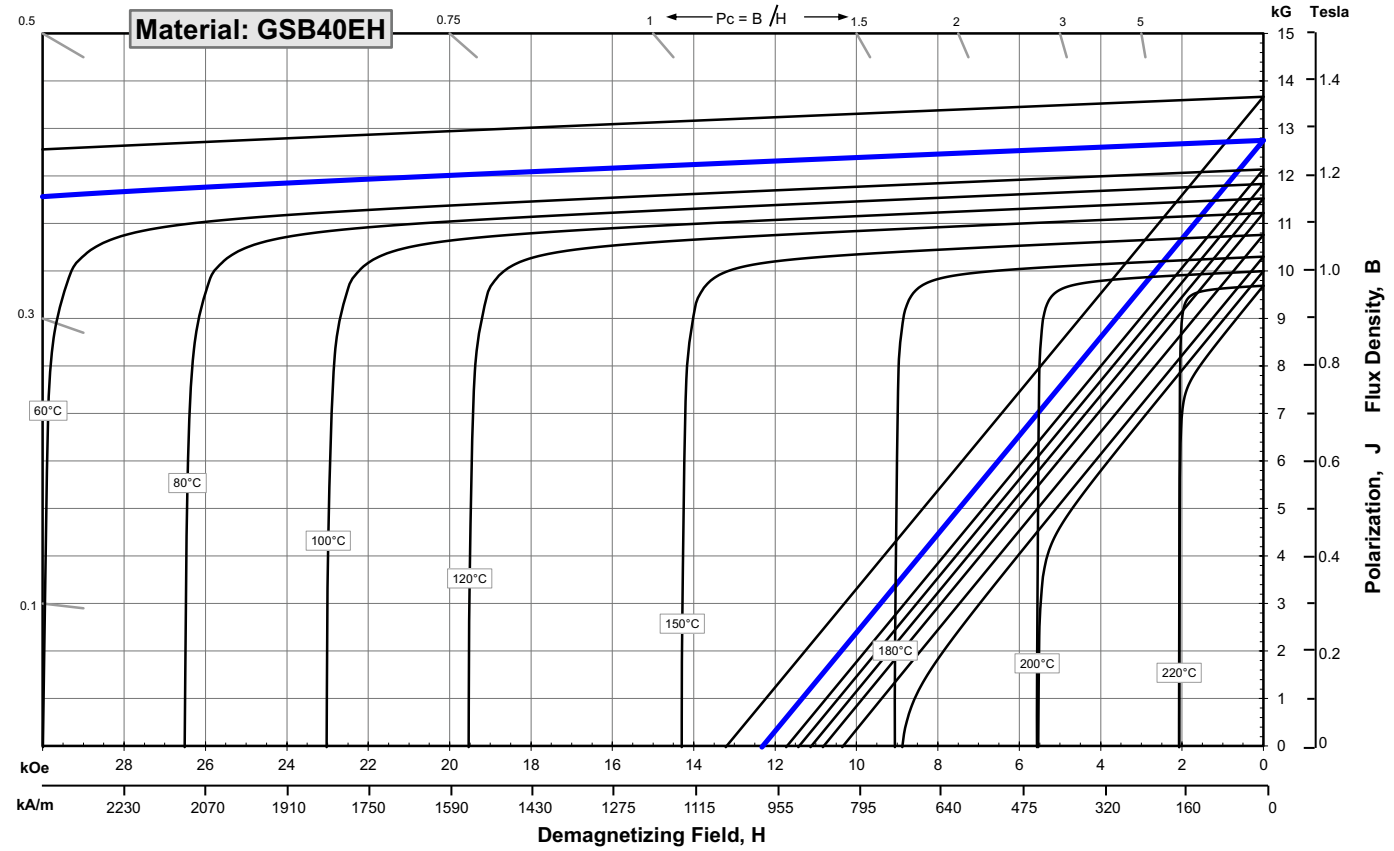

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