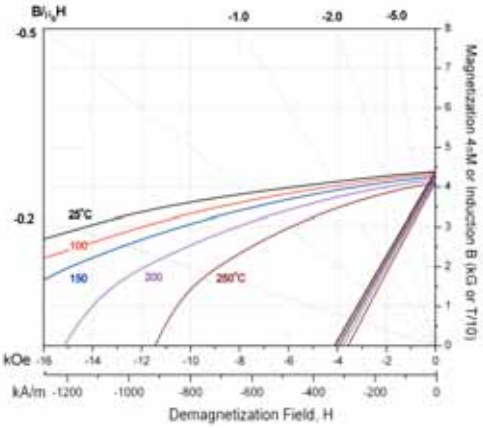
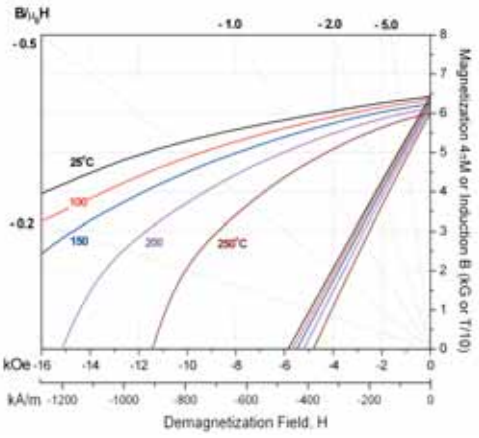
Bonded Magnet Grade	Residual Induction B_r		Coercive Force H_c		Intrinsic Coercive Force H_{ci}		Maximum Energy Product $(BH)_{max}$		T_m
	kG	T	kOe	kA/m	kOe	kA/m	MGOe	kJ/m^3	°C
NdFeB									
NEOL10	6.8-7.4	0.68-0.74	5.1-5.4	406-430	8-10	637-796	9.5-10.5	76-84	120
NEOLS10	6.7-7.2	0.67-0.72	5.4-5.8	430-462	9-12	716-955	9.5-10.5	76-84	130
NEOH9	6.0-6.5	0.60-0.65	5.4-5.9	430-470	13-17	1034-1353	8.5-9.5	68-76	130
NEOHS9	6.0-6.4	0.60-0.64	5.3-5.8	422-462	14-18	1114-1433	8.5-9.5	68-76	130
NEOT9	6.1-6.6	0.61-0.66	5.0-5.6	398-446	11-14	876-1114	8.5-9.5	68-76	150
SmCo									
SCH5	4.3-5.0	0.43-0.50	4.0-4.6	318-366	>20	>1592	4.5-5.5	36-44	200
SCH10	6.1-6.8	0.61-0.68	5.5-6.2	438-494	>20	>1592	8.5-11.0	72-88	200

The chart above represents more commonly used materials. Additional customized magnet materials available upon request. Detailed second quadrant demagnetization curves and additional design data available at www.electronenergy.com



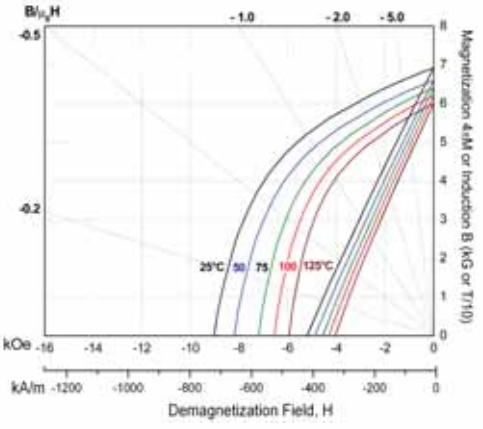
Bonded SmCo EEC - SCH5

B_r = 4.3 – 5.0 kG
H_c = 4.0 – 4.6 kOe
H_{ci} > 20 kOe
$(BH)_{max}$ = 4.5 – 5.5 MGOe
Density: 6.5 - 7.1 g/cm³
Required Magnetizing Field: > 50 kOe
Maximum Operating Temperature: 200°C
α* of B_r (25 - 100°C): -0.03%/°C
ß* of H_{ci} (25 - 100°C): -0.25%/°C
*Temperature Coefficient



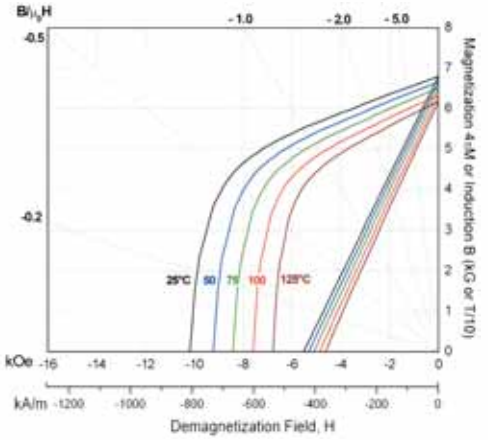
Bonded SmCo EEC - SCH10

B_r = 6.1 – 6.8 kG
H_c = 5.5 – 6.2 kOe
H_{ci} > 20 kOe
$(BH)_{max}$ = 8.5 – 11.0 MGOe
Density: 6.5 - 7.1 g/cm³
Required Magnetizing Field: > 50 kOe
Maximum Operating Temperature: 200°C
α* of B_r (25 - 100°C): -0.03%/°C
ß* of H_{ci} (25 - 100°C): -0.25%/°C
*Temperature Coefficient



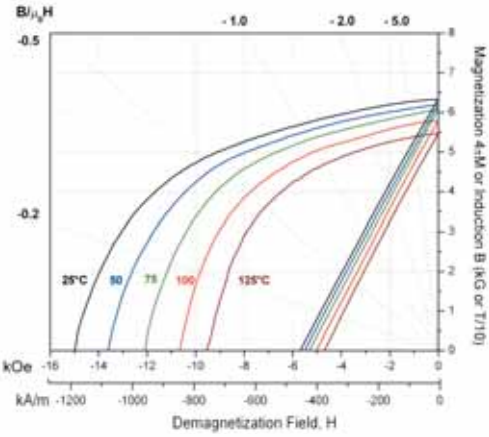
Bonded NdFeB EEC - NEOL10

B_r = 6.8 – 7.4 kG
H_c = 5.1 – 5.4 kOe
H_{ci} = 8 – 10 kOe
$(BH)_{max}$ = 9.5 – 10.5 MGOe
Density: 5.8 - 6.1 g/cm³
Required Magnetizing Field: > 30 kOe
Maximum Operating Temperature: 120°C
α* of B_r (25 - 100°C): -0.11%/°C
ß* of H_{ci} (25 - 100°C): -0.4%/°C
*Temperature Coefficient



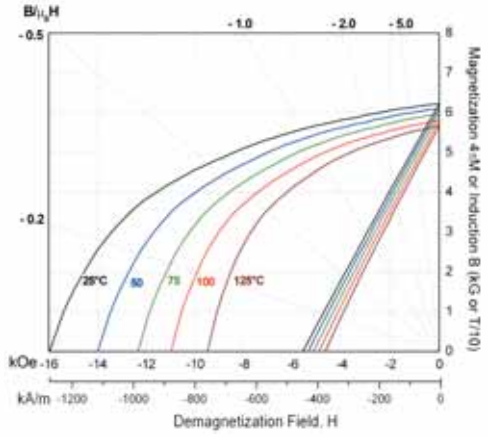
Bonded NdFeB
EEC – NEOLS10

B_r = 6.7 – 7.2 kG
H_c = 5.4 – 5.8 kOe
H_{ci} = 9 – 12 kOe
$(BH)_{max}$ = 9.5 – 10.5 MGOe
Density: 5.8 - 6.1 g/cm^3
Required Magnetizing Field: > 30 kOe
Maximum Operating Temperature: 130°C
α* of B_r (25 - 100°C): -0.08%/°C
ß* of H_{ci} (25 - 100°C): -0.39%/°C
*Temperature Coefficient



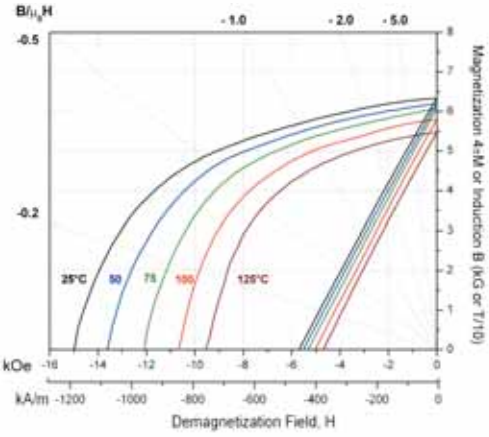
Bonded NdFeB
EEC – NEOH9

B_r = 6.0 – 6.5 kG
H_c = 5.4 – 5.9 kOe
H_{ci} = 13 – 17 kOe
$(BH)_{max}$ = 8.5 – 9.5 MGOe
Density: 5.8 - 6.1 g/cm^3
Required Magnetizing Field: > 30 kOe
Maximum Operating Temperature:130°C
α* of B_r (25 - 100°C): -0.12%/°C
ß* of H_{ci} (25 - 100°C): -0.38%/°C
*Temperature Coefficient



Bonded NdFeB
EEC – NEOHS9

B_r = 6.0 – 6.4 kG
H_c = 5.3 – 5.8 kOe
H_{ci} = 14 – 18 kOe
$(BH)_{max}$ = 8.5 – 9.5 MGOe
Density: 5.8 - 6.1 g/cm^3
Required Magnetizing Field: > 30 kOe
Maximum Operating Temperature:130°C
α* of B_r (25 - 100°C): -0.07%/°C
ß* of H_{ci} (25 - 100°C): -0.42%/°C
*Temperature Coefficient



Bonded NdFeB
EEC – NEOT9

B_r = 6.1 – 6.6 kG
H_c = 5.0 – 5.6 kOe
H_{ci} = 11 – 14 kOe
$(BH)_{max}$ = 8.5 – 9.5 MGOe
Density: 5.8 - 6.1 g/cm^3
Required Magnetizing Field: > 30 kOe
Maximum Operating Temperature:150°C
α* of B_r (25 - 100°C): -0.13%/°C
ß* of H_{ci} (25 - 100°C): -0.37%/°C
*Temperature Coefficient

ELECTRON ENERGY CORPORATION
Specialists in Rare Earth Magnets and Magnet Systems
924 Links Avenue • Landisville, PA 17538
717-898-2294 tel • 717-898-0660 fax
eec@electronenergy.com
www.electronenergy.com