

Grade	Residual Induction Br-Gs	Intrinsic Coercive Hci-Oe	Coercive Force Hc-Oe	BHmax Energy MGOe	Max. Operating Temp. in °C/°F at an Operating Slope of 1	TC of Br %/°C	TC of Hci %/°C
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ALNICO MATERIAL

Cast Alnico 2	7500	580	560	1.7	550 °C/1020 °F	-0.02	-
Cast Alnico 3	7000	500	480	1.35	550 °C/1020 °F	-0.02	-
Cast Alnico 5	12800	640	640	5.5	550 °C/1020 °F	-0.02	-
Cast Alnico 5-7	13500	740	740	7.5	550 °C/1020 °F	-0.02	-
Cast Alnico 8	8200	1860	1650	5.3	550 °C/1020 °F	-0.02	-
Cast Alnico 9	10600	1500	1500	9.0	550 °C/1020 °F	-0.02	-
Sintered Alnico 2	7100	570	550	1.5	450 °C/840 °F	-0.02	-
Sintered Alnico 5	10900	630	620	3.9	450 °C/840 °F	-0.02	-
Sintered Alnico 8	7400	1690	1500	4.0	450 °C/840 °F	-0.02	-
above values are nominal properties							

CERAMIC MATERIAL

Ceramic 1	2300	3000	1850	1.0	399°C/750°F	-0.2	0.2~0.5
Ceramic 5	3950	2500	2400	3.4	399°C/750°F	-0.2	0.2~0.5
Ceramic 8a	3900	3050	2950	3.5	399°C/750°F	-0.2	0.2~0.5
Ceramic 8b	4200	2950	2900	4.1	399°C/750°F	-0.2	0.2~0.5
Ceramic 8c	4300	2750	2700	4.2	399°C/750°F	-0.2	0.2~0.5
above values are nominal properties							

**SAMARIUM COBALT MATERIAL
1.5 SERIES**

SmCo 18	8,400~8,900	≥23,000	8,100~8,600	17-19	250°C/482°F	-0.040	-0.30
SmCo 20	8,900~9,300	≥23,000	8,600~9,100	19-21	250°C/482°F	-0.045	-0.30
SmCo 22	9,200~9,600	≥23,000	8,600~9,400	21-23	250°C/482°F	-0.045	-0.30
SmCo 24	9,600~10,000	≥23,000	9,300~9,800	22-24	250°C/482°F	-0.045	-0.30
SmCoLTC10	6,200~6,600	≥23,000	6,100~6,500	9.5-11	300°C/572°F	Temp.	Br%/°C
						20-100°C	+0.0156
						100-200°C	+0.0087
						200-300°C	+0.0007

2.17 SERIES

SmCo2412	9500~10,200	8k/12k	6,800~9,000	22-24	250°C/482°F	-0.025	-0.20
SmCo2612	10,200~10,500	8k/12k	6,800~9,400	24-26	250°C/482°F	-0.035	-0.20
SmCo2812	10,300~10,800	8k/12k	6,800~9,600	26-28	250°C/482°F	-0.035	-0.20
SmCo3012	10,800~11,500	8k/12k	6,800~10,000	28-30	250°C/482°F	-0.035	-0.20
SmCo3212	11,000~11,500	8k/12k	6,800~10,200	29-32	250°C/482°F	-0.035	-0.20
SmCo2616	10,200~10,500	12k-18k	8,500~9,800	24-26	300°C/572°F	-0.035	-0.20
SmCo2816	10,300~10,800	12k-18k	8,500~10,000	26-28	300°C/572°F	-0.035	-0.20
SmCo3016	10,800~11,000	12k-18k	8,500~10,500	28-30	300°C/572°F	-0.035	-0.20
SmCo3216	11,000~11,300	12k-18k	8,500~10,600	29-32	300°C/572°F	-0.035	-0.20
SmCo2218	9300~9,700	≥ 18,000	8,500~9,300	20-23	300°C/572°F	-0.020	-0.20
SmCo2418	9500~10,200	≥ 18,000	8,700~9,600	22-24	300°C/572°F	-0.025	-0.20
SmCo2618	10,200~10,500	≥ 18,000	9,400~10,000	24-26	300°C/572°F	-0.030	-0.20
SmCo2818	10,300~10,800	≥ 18,000	9,500~10,200	26-28	300°C/572°F	-0.035	-0.20
SmCo3018	10,800~11,500	≥ 18,000	9,900~10,500	28-30	300°C/572°F	-0.035	-0.20
SmCo3218	11,000~11,500	≥ 18,000	10,200~10,700	29-32	300°C/572°F	-0.035	-0.20
SmCo2425	9500~10,200	≥ 25,000	8,700~9,600	22-24	350°C/662°F	-0.025	-0.20
SmCo2625	10,200~10,500	≥ 25,000	9,400~10,000	24-26	350°C/662°F	-0.030	-0.20
SmCo2825	10,300~10,800	≥ 25,000	9,500~10,200	26-28	350°C/662°F	-0.035	-0.20
SmCo3025	10,800~11,000	≥ 25,000	9,900~10,500	28-30	350°C/662°F	-0.035	-0.20
SmCo3225	11,000~11,300	≥ 25,000	10,200~10,700	29-32	350°C/662°F	-0.035	-0.20
SmCoLTC22	9400~9,800	15k-20k	8,400~9,000	22-24	300°C/572°F	Temp.	Br%/°C
						-50-25°C	+0.005
						20-100°C	-0.008
						100-200°C	-0.008
						200-300°C	-0.011

We offer additional grades with some properties added or improved upon request. Please consult our sales representative or technical personnel for more details.

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NEODYMIUM MATERIAL

Neo2825 (UH)	10.2~10.8	≥25	9.6	25~28	108/356	-0.12	-0.70
Neo2830 (EH)	10.4~10.9	≥30	9.8	25~28	200/392	-0.12	-0.70
Neo2834 (AH)	10.2~10.9	≥34	9.8	25~29	230/446	-0.12	-0.70
Neo3020 (SH)	10.8~11.3	≥20	10.1	28~31	150/302	-0.12	-0.70
Neo3025 (UH)	10.8~11.3	≥25	10.2	28~31	180/356	-0.12	-0.70
Neo3030 (EH)	10.8~11.3	≥30	10.2	28~31	200/392	-0.12	-0.70
Neo3034 (AH)	10.7~11.3	≥34	10.5	27~31	230/446	-0.12	-0.70
Neo3312 (N)	11.3~11.7	≥12	10.5	31~34	80/176	-0.12	-0.70
Neo3314 (M)	11.3~11.7	≥14	10.5	31~34	100/212	-0.12	-0.70
Neo3317 (H)	11.3~11.7	≥17	10.5	31~34	120/248	-0.12	-0.70
Neo3320 (SH)	11.3~11.7	≥20	10.6	31~34	150/302	-0.12	-0.70
Neo3325 (UH)	11.3~11.7	≥25	10.7	31~34	180/356	-0.12	-0.70
Neo3330 (EH)	11.3~11.7	≥30	10.3	31~34	200/392	-0.12	-0.70
Neo3333 (AH)	11.1~11.7	≥33	10.5	30~34	230/446	-0.12	-0.70
Neo3512 (N)	11.7~12.2	≥12	10.9	33~36	80/176	-0.12	-0.70
Neo3514 (M)	11.7~12.2	≥14	10.9	33~36	100/212	-0.12	-0.70
Neo3517 (H)	11.7~12.2	≥17	10.9	33~36	120/248	-0.12	-0.70
Neo3520 (SH)	11.7~12.2	≥20	11.0	33~36	150/302	-0.12	-0.70
Neo3525 (UH)	11.7~12.2	≥25	10.8	33~36	180/356	-0.12	-0.70
Neo3530 (EH)	11.7~12.2	≥30	10.5	33~36	200/392	-0.12	-0.70
Neo3533 (AH)	11.7~12.2	≥33	10.5	33~36	230/446	-0.12	-0.70
Neo3812 (N)	12.2~12.5	≥12	11.3	36~39	80/176	-0.12	-0.70
Neo3814 (M)	12.2~12.5	≥14	11.3	36~39	100/212	-0.12	-0.70
Neo3817 (H)	12.2~12.5	≥17	11.3	36~39	120/248	-0.12	-0.70
Neo3820 (SH)	12.2~12.5	≥20	11.4	36~39	150/302	-0.12	-0.70
Neo3825 (UH)	12.2~12.5	≥25	11.0	36~39	180/356	-0.12	-0.70
Neo3830 (EH)	12.0~12.5	≥30	11.5	35~39	200/392	-0.12	-0.70
Neo3833 (AH)	12.2~12.6	≥33	11.6	36~39	220/428	-0.12	-0.70
Neo4012 (N)	12.5~12.8	≥12	11.6	38~41	80/176	-0.12	-0.70
Neo4014 (M)	12.5~12.8	≥14	11.6	38~41	100/212	-0.12	-0.70
Neo4017 (H)	12.5~12.8	≥17	11.6	38~41	120/248	-0.12	-0.70
Neo4020 (SH)	12.5~12.8	≥20	11.8	38~41	150/302	-0.12	-0.70
Neo4030 (EH)	12.5~12.9	≥30	11.5	38~41	190/374	-0.12	-0.70
Neo4025 (UH)	12.5~12.8	≥25	11.5	38~41	180/356	-0.12	-0.70
Neo4212 (N)	12.8~13.2	≥12	11.6	40~43	80/176	-0.12	-0.70
Neo4214 (M)	12.8~13.2	≥14	12.0	40~43	100/212	-0.12	-0.70
Neo4217 (H)	12.8~13.2	≥17	12.0	40~43	120/248	-0.12	-0.70
Neo4220 (SH)	12.8~13.2	≥20	12.2	40~43	150/302	-0.12	-0.70
Neo4225 (UH)	12.7~13.2	≥25	12.2	40~43	170/338	-0.12	-0.70
Neo4229 (EH)	12.8~13.2	≥29	12.2	39~43	180/356	-0.12	-0.70
Neo4512 (N)	13.2~13.7	≥12	11.0	43~46	80/176	-0.12	-0.70
Neo4514 (M)	13.2~13.7	≥14	12.5	43~46	100/212	-0.12	-0.70
Neo4517 (H)	13.2~13.7	≥17	12.2	43~46	120/248	-0.12	-0.70
Neo4520 (SH)	13.2~13.7	≥20	12.3	43~46	140/284	-0.12	-0.70
Neo4525 (UH)	13.2~13.7	≥24	12.5	43~47	160/320	-0.12	-0.70
Neo4812 (N)	13.7~14.2	≥12	11.2	45~49	80/176	-0.12	-0.70
Neo4814 (M)	13.6~14.2	≥14	12.8	45~49	100/212	-0.12	-0.70
Neo4817 (H)	13.6~14.2	≥17	12.9	45~49	110/230	-0.12	-0.70
Neo4820 (SH)	13.6~14.2	≥20	12.5	45~49	130/266	-0.12	-0.70
Neo5012 (N)	13.9~14.4	≥12	10.5	47~51	60/132	-0.12	-0.70
Neo5014 (M)	13.9~14.4	≥14	13.0	47~51	90/194	-0.12	-0.70
Neo5016 (H)	13.9~14.4	≥16	13.0	47~51	100/212	-0.12	-0.70
Neo5211 (N)	14.3~14.8	≥11	10.5	49~53	60/140	-0.12	-0.70
Neo5213 (M)	14.2~14.7	≥13	12.5	49~53	80/176	-0.12	-0.70