

NEODYMIUM MATERIAL

Adams NdFeB	ASTM 1101-16	Residual Induction Br (kG)	Intrinsic Coercivity Hci (kOe)	Coercive Force Hc (kOe)	BHmax Energy (MGOe)	Max. Temp. (°C/°F)*	TC of Br (%/°C)	TC of Hci (%/°C)
Neo3020 (SH)	ND-SA-222/1592	10.8~11.3	≥20	≥10.1	28~31	150/302	-0.12	-0.70
Neo3025 (UH)	ND-SA-222/1989	10.8~11.3	≥25	≥10.2	28~31	180/356	-0.12	-0.70
Neo3030 (EH)	ND-SA-222/2387	10.8~11.3	≥30	≥10.2	28~31	200/392	-0.12	-0.70
Neo3034 (AH)	ND-SA-222/2785	10.7~11.3	≥34	≥10.2	27~31	230/446	-0.12	-0.70
Neo3312 (N)	ND-SA-244/955	11.3~11.7	≥12	≥10.5	31~34	80/176	-0.12	-0.70
Neo3314 (M)	ND-SA-244/1114	11.3~11.7	≥14	≥10.5	31~34	100/212	-0.12	-0.70
Neo3317 (H)	ND-SA-244/1353	11.3~11.7	≥17	≥10.5	31~34	120/248	-0.12	-0.70
Neo3320 (SH)	ND-SA-244/1592	11.3~11.7	≥20	≥10.6	31~34	150/302	-0.12	-0.70
Neo3325 (UH)	ND-SA-244/1989	11.3~11.7	≥25	≥10.7	31~34	180/356	-0.12	-0.70
Neo3330 (EH)	ND-SA-244/2387	11.3~11.7	≥30	≥10.8	31~34	200/392	-0.12	-0.70
Neo3333 (AH)	(none)	11.1~11.7	≥33	≥10.8	30~34	230/446	-0.12	-0.70
Neo3512 (N)	ND-SA-259/955	11.7~12.2	≥12	≥10.9	33~36	80/176	-0.12	-0.70
Neo3514 (M)	ND-SA-259/1114	11.7~12.2	≥14	≥10.9	33~36	100/212	-0.12	-0.70
Neo3517 (H)	ND-SA-259/1353	11.7~12.2	≥17	≥10.9	33~36	120/248	-0.12	-0.70
Neo3520 (SH)	ND-SA-259/1592	11.7~12.2	≥20	≥11.0	33~36	150/302	-0.12	-0.70
Neo3525 (UH)	ND-SA-259/1989	11.7~12.2	≥25	≥11.1	33~36	180/356	-0.12	-0.70
Neo3530 (EH)	ND-SA-259/2387	11.7~12.2	≥30	≥11.1	33~36	200/392	-0.12	-0.70
Neo3533 (AH)	(none)	11.7~12.2	≥33	≥11.1	33~36	230/446	-0.12	-0.70
Neo3812 (N)	ND-SA-281/955	12.2~12.5	≥12	≥11.3	36~39	80/176	-0.12	-0.70
Neo3814 (M)	ND-SA-281/1114	12.2~12.5	≥14	≥11.3	36~39	100/212	-0.12	-0.70
Neo3817 (H)	ND-SA-281/1353	12.2~12.5	≥17	≥11.3	36~39	120/248	-0.12	-0.70
Neo3820 (SH)	ND-SA-281/1592	12.2~12.5	≥20	≥11.4	36~39	150/302	-0.12	-0.70
Neo3825 (UH)	ND-SA-281/1989	12.2~12.5	≥25	≥11.5	36~39	180/356	-0.12	-0.70
Neo3830 (EH)	ND-SA-281/2387	12.2~12.5	≥30	≥11.5	35~39	200/392	-0.12	-0.70
Neo3833 (AH)	(none)	12.2~12.6	≥33	≥11.6	36~39	220/428	-0.12	-0.70
Neo4012 (N)	ND-SA-296/955	12.5~12.8	≥12	≥11.6	38~41	80/176	-0.12	-0.70
Neo4014 (M)	ND-SA-296/1114	12.5~12.8	≥14	≥11.6	38~41	100/212	-0.12	-0.70
Neo4017 (H)	ND-SA-296/1353	12.5~12.8	≥17	≥11.6	38~41	120/248	-0.12	-0.70
Neo4020 (SH)	ND-SA-296/1592	12.5~12.8	≥20	≥11.8	38~41	150/302	-0.12	-0.70
Neo4025 (UH)	ND-SA-296/1989	12.5~12.8	≥25	≥11.8	38~41	180/356	-0.12	-0.70
Neo4030 (EH)	(none)	12.5~12.9	≥30	≥11.8	38~41	190/374	-0.12	-0.70
Neo4212 (N)	ND-SA-311/955	12.8~13.2	≥12	≥11.6	40~43	80/176	-0.12	-0.70
Neo4214 (M)	ND-SA-311/1114	12.8~13.2	≥14	≥12.0	40~43	100/212	-0.12	-0.70
Neo4217 (H)	ND-SA-311/1353	12.8~13.2	≥17	≥12.0	40~43	120/248	-0.12	-0.70
Neo4220 (SH)	ND-SA-311/1592	12.8~13.2	≥20	≥12.2	40~43	150/302	-0.12	-0.70
Neo4225 (UH)	ND-SA-311/1989	12.7~13.2	≥25	≥12.2	40~43	170/338	-0.12	-0.70
Neo4229 (EH)	(none)	12.8~13.2	≥29	≥12.2	39~43	180/356	-0.12	-0.70
Neo4512 (N)	ND-SA-333/955	13.2~13.7	≥12	≥11.6	43~46	80/176	-0.12	-0.70
Neo4514 (M)	ND-SA-333/1114	13.2~13.7	≥14	≥12.5	43~46	100/212	-0.12	-0.70
Neo4517 (H)	ND-SA-333/1353	13.2~13.7	≥17	≥12.5	43~46	120/248	-0.12	-0.70
Neo4520 (SH)	ND-SA-333/1592	13.2~13.7	≥20	≥12.5	43~46	140/284	-0.12	-0.70
Neo4525 (UH)	ND-SA-333/1989	13.2~13.7	≥24	≥12.5	43~47	160/320	-0.12	-0.70
Neo4812 (N)	ND-SA-355/955	13.7~14.2	≥12	≥11.6	45~49	80/176	-0.12	-0.70
Neo4814 (M)	ND-SA-355/1114	13.6~14.2	≥14	≥12.8	45~49	100/212	-0.12	-0.70
Neo4817 (H)	ND-SA-355/1353	13.6~14.2	≥17	≥12.9	45~49	110/230	-0.12	-0.70
Neo4820 (SH)	ND-SA-355/1592	13.6~14.2	≥20	≥12.9	45~49	130/266	-0.12	-0.70
Neo5012 (N)	ND-SA-370/955	13.9~14.4	≥12	≥11.6	47~51	80/176	-0.12	-0.70
Neo5014 (M)	ND-SA-370/1114	13.9~14.4	≥14	≥13.0	47~51	100/212	-0.12	-0.70
Neo5016 (H)	ND-SA-370/1353	13.9~14.4	≥16	≥13.0	47~51	120/248	-0.12	-0.70
Neo5211 (N)	ND-SA-385/875	14.3~14.8	≥11.6	≥11.0	49~53	80/176	-0.12	-0.70
Neo5213 (M)	ND-SA-385/955	14.2~14.7	≥13	≥12.5	49~53	100/212	-0.12	-0.70
Neo5412 (N)	(none)	14.4-14.8	≥12	10.5	50-54	60/140	-0.12	-0.70
Neo5612 (N)	(none)	14.6-15.0	≥12	10.5	51-56	60/140	-0.12	-0.70

This is not a comprehensive listing of all available grades. Please contact us with your specific requirements.

SAMARIUM COBALT MATERIAL 1:5 SERIES

Adams SmCo	ASTM 1102-16	Residual Induction Br (kG)	Intrinsic Coercivity Hci (kOe)	Coercive Force Hc (kOe)	BHmax Energy (MGOe)	Max. Temp. (°C/°F)*	TC of Br (%/°C)	TC of Hci (%/°C)
SmCo 18	S1-SA-120/1600	8.4~8.9	≥23	8.3~8.6	17-19	250/482	-0.040	-0.30
SmCo 20	S1-SA-140/1200	8.9~9.3	≥23	8.6~9.1	19-21	250/482	-0.045	-0.30
SmCo 22	S1-SA-160/1200	9.2~9.6	≥23	8.9~9.4	21-23	250/482	-0.045	-0.30
SmCo 24	S1-SA-170/700	9.6~10.0	≥23	9.3~9.8	23-25	250/482	-0.045	-0.30
SmCoLTC10		6.2~6.6	≥23	6.1~6.5	9.5-11	300/572	Temp. 20-100°C 100-200°C 200-300°C	Br%/°C +0.0156 +0.0087 +0.0007

SAMARIUM COBALT MATERIAL 2:17 SERIES

SmCo2218	S2-SA-160/700	9.3~9.7	≥ 18	8.5~9.3	20-23	300/572	-0.020	-0.20
SmCo2418	S2-SA-172/529	9.5~10.2	≥ 18	8.7~9.6	22-24	300/572	-0.025	-0.20
SmCo2618	S2-SA-186/756	10.2~10.5	≥ 18	9.4~10.0	24-26	300/572	-0.030	-0.20
SmCo2818	S2-SA-201/529	10.3~10.8	≥ 18	9.5~10.2	26-28	300/572	-0.035	-0.20
SmCo3018	S2-SA-220/1500	10.8~11.0	≥ 18	9.9~10.5	28-30	300/572	-0.035	-0.20
SmCo3218	S2-SA-230/1134	11.0~11.3	≥ 18	10.2~10.7	29-32	300/572	-0.035	-0.20
SmCo3318		11.4~11.7	≥ 18	8.2~10.4	31-34	250/482	-0.040	-0.20
SmCo2425	S2-SA-172/1966	9.5~10.2	≥ 25	8.7~9.6	22-24	350/662	-0.025	-0.20
SmCo2625	S2-SA-186/1966	10.2~10.5	≥ 25	9.4~10.0	24-26	350/662	-0.030	-0.20
SmCo2825	S2-SA-201/1966	10.3~10.8	≥ 25	9.5~10.2	26-28	350/662	-0.035	-0.20
SmCo3025	S2-SA-215/1814	10.8~11.0	≥ 25	9.9~10.5	28-30	350/662	-0.035	-0.20
SmCo3225	S2-SA-230/1890	11.0~11.3	≥ 25	10.2~10.7	29-32	350/662	-0.035	-0.20
SmCoLTC22		9.4~9.8	15-20	8.4~9.0	22-24	300/572	Temp. -50-25°C 20-100°C 100-200°C 200-300°C	Br%/°C +0.005 -0.008 -0.008 -0.011

ALNICO MATERIAL

Adams Alnico	ASTM 1070-16	Residual Induction Br (G)	Intrinsic Coercivity Hci (Oe)	Coercive Force Hc (Oe)	BHmax Energy (MGOe)	Max. Temp. (°C/°F)*	TC of Br (%/°C)	TC of Hci (%/°C)
Cast Alnico 2	AL-CI-12/44	7,100	560	550	1.5	550/1020	-0.02	-
Cast Alnico 3	AL-CI-10/38	6,000	560	550	1.25	550/1020	-0.02	-
Cast Alnico 5	AL-CA-39/49	12,300	610	600	5.0	550/1020	-0.02	-
Cast Alnico 5-7	AL-CA-54/56	13,000	730	720	7.0	550/1020	-0.02	-
Cast Alnico 8	AL-CA-38/141	8,000	1,400	1,380	4.75	550/1020	-0.02	-
Cast Alnico 9	AL-CA-65/115	10,800	1,520	1,500	10.0	550/1020	-0.02	-
Sintered Alnico 2	AL-S1-11/43	6,700	610	600	1.5	450/840	-0.02	-
Sintered Alnico 5	AL-SA-28/48	12,000	610	600	4.25	450/840	-0.02	-
Sintered Alnico 8	AL-SA-29/128	8,000	1,620	1,600	5.25	450/840	-0.02	-
above values are nominal properties								

CERAMIC MATERIAL

Adams Ceramic	ASTM 1054-16	Residual Induction Br (G)	Intrinsic Coercivity Hci (Oe)	Coercive Force Hc (Oe)	BHmax Energy (MGOe)	Max. Temp. (°C/°F)*	TC of Br (%/°C)	TC of Hci (%/°C)
Ceramic 1	CE-I-01	2,300	3,000	1,850	1.0	399/750	-0.2	0.2~0.5
Ceramic 5	CE-A-05	3,950	2,500	2,400	3.4	399/750	-0.2	0.2~0.5
Ceramic 8a	CE-A-08A	3,900	3,050	2,950	3.5	399/750	-0.2	0.2~0.5
Ceramic 8b	CE-A-08B	4,200	2,950	2,900	4.1	399/750	-0.2	0.2~0.5
Ceramic 8c	(none)	4,300	2,750	2,700	4.2	399/750	-0.2	0.2~0.5
above values are nominal properties								

*Maximum operating temperatures are for a magnet geometry with a corresponding Operating Slope of 1