

## Magnetic properties of Sintered Al-Ni-Co permanent magnets

Grades	Remanence		Coercive Force		Intrinsic Coercivity		Maximum Energy Product		Curie Temp.	Temp. Coefficient of Br	Remarks	
	Br		Hcb		Hcj		(BH)max					
	T	KG	KA/m	KOe	KA/m	KOe	kJ/m <sup>3</sup>	MGOe	°C	%/°C		
SAlNiCo4/1	0.87-0.89	8.7 - 8.9	9 - 11	0.11-0.14	10 - 12	0.13-0.15	3.2 - 4.8	0.40-0.60	750	-0.02	Isotropy	
SAlNiCo8/5	0.53-0.62	5.3 - 6.2	45 - 50	0.57-0.63	47 - 52	0.59-0.65	8.5 - 9.5	1.07 - 1.19	750	-0.02		
SAlNiCo10/5	0.63-0.70	6.3 - 7.0	48 - 56	0.60-0.70	50 - 58	0.63-0.73	9.5 - 11	1.19 - 1.38	780	-0.02		
SAlNiCo12/5	0.70-0.75	7.0 - 7.5	50 - 56	0.62-0.70	53 - 58	0.66-0.73	11 - 13	1.38 - 1.63	800	-0.02		Equivalent to AlNiCo-2
SAlNiCo14/5	0.73-0.80	7.3 - 8.0	47 - 50	0.59-0.63	50 - 53	0.63-0.67	13 - 15	1.63 - 1.88	790	-0.02		Equivalent to AlNiCo-2
SAlNiCo14/6	0.62-0.81	6.2 - 8.1	56 - 64	0.70-0.81	58 - 66	0.73-0.83	14 - 16	1.76-2.00	790	-0.02		
SAlNiCo14/8	0.55-0.61	5.5 - 6.1	75 - 88	0.94-1.11	80 - 92	1.00-1.16	14 - 16	1.76-2.00	850	-0.01		
SAlNiCo18/10	0.57-0.62	5.7 - 6.2	92 - 100	1.16-1.26	99 - 107	1.24-1.34	16 - 19	2.00-2.39	860	-0.01		
SAlNiCo29/6	0.97-1.09	9.7 - 10.9	58 - 64	0.73-0.80	60 - 66	0.75-0.83	29 - 33	3.64-4.15	860	-0.02	Equivalent to AlNiCo-6	Anisotropy
SAlNiCo30/6	1.00-1.10	10.0-11.0	58 - 64	0.73-0.80	60 - 66	0.75-0.83	30 - 34	3.77-4.27	860	-0.02	Equivalent to AlNiCo-6	
SAlNiCo33/11	0.70-0.80	7.0 - 8.0	107 - 115	1.34-1.45	111 - 119	1.39-1.50	33 - 38	4.14-4.77	860	-0.01		
SAlNiCo35/5	1.10-1.20	11.0-12.0	48 - 52	0.60-0.65	50 - 54	0.63-0.68	35 - 39	4.40-4.90	850	-0.02	Equivalent to AlNiCo-5	
SAlNiCo37/15	0.70-0.80	7.0 - 8.0	140 - 147	1.76-1.85	150 - 158	1.88-1.98	37 - 41	4.65-5.15	870	-0.01		
SAlNiCo39/12	0.83-0.90	8.3 - 9.0	115 - 123	1.45-1.54	119 - 127	1.50-1.60	39 - 43	4.90-5.40	860	-0.01	Equivalent to AlNiCo-8	
SAlNiCo40/15	0.75-0.85	7.5 - 8.5	143 - 151	1.80-1.90	155 - 163	1.95-2.05	40 - 48	5.02-6.03	870	-0.01		
SAlNiCo42/10	0.95-1.10	9.5 - 11.0	100 - 110	1.26-1.38	104 - 114	1.30-1.43	42 - 46	5.27-5.77	860	-0.01		
SAlNiCo44/12	0.90-0.95	9.0 - 9.5	119 - 127	1.50-1.60	124 - 132	1.56-1.66	44 - 48	5.53-6.03	860	-0.01		
SAlNiCo44/15	0.80-0.88	8.0 - 8.8	148 - 160	1.86-2.00	155 - 163	1.95-2.05	44 - 48	5.53-6.03	870	-0.01		

\* The above table shows typical characteristics. We are happy to offer other grades according to your requirements. Please feel free to contact us.