

Magnetic Properties of Sintered AlNiCo Magnets--Italy Market

Grade	Remanence Br		Coercive force Hcb		Intrinsic Coercive force Hcj		Maximum Energy (BH)max		Density	α(Br)	Tc.	Remarks
	KGs	mT	KOe	KA/m	KOe	kA/m	MGOe	KJ/m ³	g/cm ³	%/°C	°C	
Alnico 4/1	8.7-8.9	870-890	0.11-0.14	9-11	0.13-0.15	10-12	0.40-0.60	3.2-4.8	6.80	-0.02	750	Isotropy
Alnico 8/5	5.3-6.2	530-620	0.57-0.63	45-50	0.59-0.65	47-52	1.07-1.19	8.5-9.5	6.80	-0.02	750	
Alnico 10/5	6.3-7.0	630-700	0.60-0.70	48-56	0.63-0.73	50-58	1.19-1.38	9.5-11	6.80	-0.02	780	
Alnico 12/5	7.0-7.5	700-750	0.62-0.70	50-56	0.66-0.73	53-58	1.38-1.63	11-13	7.00	-0.02	800	
Alnico 14/5	7.3-8.0	730-800	0.59-0.63	47-50	0.63-0.67	50-53	1.63-1.88	13-15	7.10	-0.02	790	
Alnico 14/6	6.2-8.1	620-810	0.70-0.81	56-64	0.73-0.83	58-66	1.76-2.00	14-16	7.10	-0.02	790	
Alnico 14/8	5.5-6.1	550-610	0.94-1.11	75-88	1.00-1.16	80-92	1.72-2.00	14-16	7.10	-0.01	850	
Alnico 18/10	5.7-6.2	570-620	1.16-1.26	92-100	1.24-1.34	99-107	2.00-2.39	16-19	7.20	-0.01	860	
Alnico 29/6	9.7-12.0	970-1200	0.73-0.80	58-64	0.75-0.83	60-66	3.64-4.15	29-33	7.20	-0.02	860	Anisotropy
Alnico 30/6	10.0-11.0	1000-1100	0.73-0.80	58-64	0.75-0.83	60-66	3.77-4.27	30-34	7.20	-0.02	860	
Alnico 42/10	9.5-11.0	950-1100	1.26-1.38	100-110	1.30-1.43	104-114	5.27-5.77	42-46	7.20	-0.01	860	
Alnico 33/11	7.0-8.0	700-800	1.34-1.45	107-115	1.39-1.50	111-119	4.14-4.77	33-38	7.20	-0.01	860	
Alnico 35/5	11.0-12.0	1100-1200	0.60-0.65	48-52	0.63-0.68	50-54	4.40-4.90	35-39	7.20	-0.02	850	
Alnico 37/15	7.0-8.0	700-800	1.76-1.85	140-147	1.76-1.85	150-158	4.65-5.15	37-41	7.25	-0.01	870	
Alnico 39/12	8.3-9.0	830-900	1.45-1.54	115-123	1.50-1.60	119-127	4.90-5.40	39-43	7.25	-0.01	860	
Alnico 44/12	9.0-9.5	900-950	1.50-1.60	119-127	1.56-1.66	124-132	5.53-6.03	44-48	7.25	-0.01	860	
Alnico 44/15	7.5-8.5	750-860	1.80-1.90	143-151	1.95-2.05	155-163	5.02-6.03	40-48	7.20	-0.01	870	
Alnico 44/15	8.0-8.8	800-880	1.86-2.00	148-160	1.95-2.05	155-163	5.53-6.03	44-48	7.20	-0.01	870	