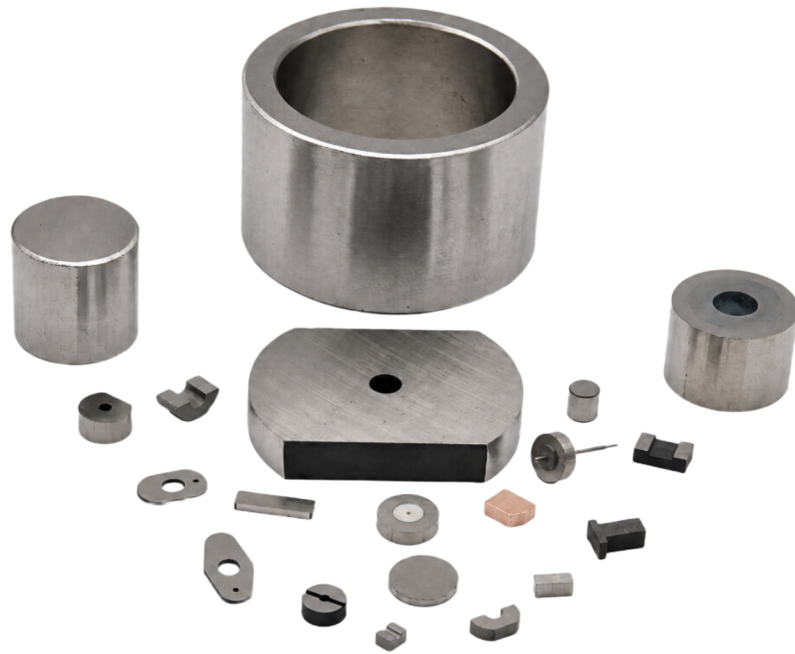




Sintered AlNiCo



Cast AlNiCo

AlNiCo Magnets

AlNiCo Magnets are excellent temperature stability and low temperature coefficient, produced by casting or sintering. Ideal for precision instruments, sensors, and electroacoustic devices requiring stable magnetic performance.

Typical Magnetic Properties of AlNiCo Magnets

Type	Grade	Remanence		Coercivity				Max Energy Product		Temperature Coefficient		Max Working Temperature	MMPA
		Br		HcB		HcJ		(BH)max		a (Br)	β (HcJ)	TwMax	
		T	kGs	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	%/ ° C	%/ ° C	° C	
Cast AlNiCo	LN10	0.65	6.5	38	0.48	40	0.5	10	1.25	-0.035	-0.025	450	Alnico 3
	LNG12	0.75	7.5	45	0.56	46	0.58	12	1.5	-0.03	-0.02	450	Alnico 2
	LNGT18	0.55	5.5	90	1.13	97	1.21	18	2.25	-0.025	0.01	550	Alnico 8
	LNG34	1.1	11	50	0.63	52	0.65	34	4.25	-0.02	0.01	525	Alnico 5
	LNG37	1.18	11.8	49	0.61	51	0.64	37	4.63	-0.02	0.01	525	
	LNG40	1.2	12	50	0.63	52	0.65	40	5	-0.02	0.01	525	
	LNG44	1.25	12.5	52	0.65	54	0.68	44	5.5	-0.02	0.01	525	
	LNGT28	1.05	10.5	56	0.7	58	0.73	28	3.5	-0.02	0.03	525	Alnico 6
	LNG52	1.3	13	56	0.7	58	0.73	52	6.5	-0.02	0.03	525	Alnico 5DG
	LNG60	1.35	13.5	58	0.73	60	0.75	60	7.5	-0.02	0.03	525	Alnico 5-7
	LNGT34	0.8	8	104	1.31	106	1.33	34	4.25	-0.025	0.01	550	Alnico 8
	LNGT38	0.8	8	110	1.38	112	1.4	38	4.75	-0.025	0.01	550	
	LNGT40	0.85	8.5	115	1.44	117	1.46	40	5	-0.025	0.01	550	
	LNGT44	0.9	9	115	1.44	117	1.46	44	5.5	-0.025	0.01	550	
	LNGT36J	0.72	7.2	140	1.75	144	1.8	36	4.5	-0.025	0.01	550	Alnico 8HC
	LNGT40J	0.75	7.5	144	1.8	159	2	40	5	-0.025	0.01	550	
	LNGT60	1	10	110	1.38	112	1.4	60	7.5	-0.025	0.01	550	Alnico 9
	LNGT72	1.05	10.5	115	1.44	117	1.46	72	9	-0.025	0.01	550	
	LNGT80	1.08	10.8	120	1.5	122	1.53	80	10	-0.025	0.01	550	
	LNGT96	1.1	11	120	1.5	122	1.53	96	12	-0.025	0.01	550	
*All values mentioned above are typical.													

Typical Magnetic Properties of AlNiCo Magnets

Type	Grade	Remanence		Coercivity				Max Energy Product		Temperature Coefficient		Max Working Temperature	MMPA
		Br		HcB		HcJ		(BH)max		a (Br)	β (HcJ)	TwMax	
		T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	%/ ° C	%/ ° C	° C	
Sintered AlNiCo	FLNG10	0.65	6.5	40	0.5	42	0.53	10	1.25	-0.035	-0.02	450	Alnico 2
	FLNG12	0.75	7.5	45	0.56	46	0.58	12	1.5	-0.035	-0.025	450	Alnico 3
	FLNGT18	0.6	6	95	1.19	98	1.23	18	2.25	-0.025	0.01	550	Alnico 8
	FLNGT20	0.62	6.2	100	1.25	105	1.31	20	2.5	-0.025	0.01	550	
	FLNG34	1.15	11.5	48	0.6	50	0.63	34	4.25	-0.02	0.01	525	Alnico 5
	FLNG37	1.2	12	48	0.6	50	0.63	37	4.7	-0.02	0.01	525	
	FLNGT28	1.1	11	58	0.73	60	0.75	28	3.5	-0.02	0.03	525	Alnico 6
	FLNGT36J	0.72	7.2	140	1.75	144	1.8	36	4.5	-0.025	0.01	550	Alnico 8HC
	FLNGT38	0.75	7.5	144	1.8	159	2	40	5	-0.025	0.01	550	Alnico 8
	FLNGT40J	0.8	8	110	1.38	112	1.4	38	4.75	-0.025	0.01	550	
	FLNGT44	0.85	8.5	120	1.5	122	1.53	44	5.5	-0.025	0.01	550	
	FLNGT48	0.92	9.2	125	1.56	127	1.59	48	6	-0.025	0.01	550	
*All values mentioned above are typical.													