

AlNiCo Magnets Performance Datasheet

● **Cast AlNiCo Magnets**

Grade	Remanence Br		Coercive Force Hcb		Max. Energy Product (BH)max		Curie Temp. Tc	Max Working Temp. Tw	Temp. Coefficient of Br T.C.α (Br)	MMPA Equivalent	IEC Equivalent	Germany Standard
	mT	Gs	kA/m	Oe	kJ/m3	MGOe	[°C]	[°C]	[%°C]			
*LN9	690	6,900	37	470	9.0	1.13	760	500	-0.03	AlNiCo3	AlNiCo9/4	AlNiCo120
*LN10	600	6,000	40	500	10.0	1.25	760	500	-0.03			
*LNG12	720	7,200	44	550	12.0	1.50	810	500	-0.03	AlNiCo2	AlNiCo12/6	AlNiCo160
*LNG13	700	7,000	48	600	13.0	1.63	810	500	-0.03			
LNG16	800	8,000	53	660	16.0	2.00	850	500	-0.02	AlNiCo4	/	/
LNG18	1,050	10,500	48	600	30.0	3.75	850	500	-0.02			
LNG32	1,180	11,800	44	550	32.0	4.00	890	500	-0.02	AlNiCo5C	/	AlNiCo500
LNG34	1,180	11,800	44	550	34.0	4.25	890	500	-0.02			
LNG37	1,200	12,000	48	600	37.0	4.65	890	500	-0.02	AlNiCo5	AlNiCo37/5	AlNiCo500
LNG40	1,250	12,500	48	600	40.0	5.00	890	500	-0.02		/	
LNG44	1,250	12,500	52	650	44.0	5.50	890	500	-0.02		AlNiCo44/5	
LNG48	1,250	12,500	52	650	48.0	6.00	890	500	-0.02	AlNiCo5DG	AlNiCo52/6	AlNiCo 600GD
LNG52	1,300	13,000	56	700	52.0	6.50	890	500	-0.02	AlNiCo5~7	/	AlNiCo700
LNG60	1,350	13,500	56	700	60.0	7.50	890	500	-0.02			
LNGT28	1,050	10,500	56	700	28.0	3.50	860	500	-0.02	AlNiCo6	AlNiCo26/6	AlNiCo400
*LNGT18	580	5,800	90	1,130	18.0	2.20	860	500	-0.03	AlNiCo7	AlNiCo17/9	AlNiCo260
LNGT32	800	8,000	100	1,250	32.0	4.25	860	500	-0.03	Alnico8	/	Alnico350
LNGT34	800	8,000	104	1,300	34.0	4.25	860	500	-0.03			
LNGT38	820	8,200	110	1,380	38.0	4.75	860	500	-0.03			

Note: "*" prior to the grade means isotropy and otherwise anisotropic.

Grade	Remanence Br		Coercive Force Hcb		Max. Energy Product (BH)max		Curie Temp. Tc.	Max Working Temp. Tw.	Temp. Coefficient of Br T.C.α (Br)	MMPA Equivalent	IEC Equivalent	Germany Standard
	mT	Gs	kA/m	Oe	kJ/m ³	MGOe	[°C]	[°C]	[%°C]			
LNGT44	880	8,800	120	1,500	44.0	5.50	860	500	-0.03	Alnico8	/	Alnico450
LNGT48	900	9,000	120	1,500	48.0	6.00	860	500	-0.03			
LNGT60	900	9,000	110	1,380	60.0	7.50	860	500	-0.03	Alnico9	Alnico60/11	/
LNGT72	1,050	1,050	112	1,410	72.0	9.00	860	500	-0.03			
LNGT82	1,100	11,000	120	1,500	82.0	10.25	860	500	-0.03			
LNGT88	1,100	11,000	120	1,500	88.0	11.00	860	500	-0.03			
LNGT92	1,120	11,200	120	1,500	92.0	11.50	860	500	-0.03			
LNGT36J	700	7,000	140	1,750	36.0	4.50	860	500	-0.03	Alnico8HC	Alnico36/15	Alnico450

● Sintered AlNiCo Magnets

Grade	Remanence (Br)		Coercive Force (Hcb)		Max Energy Product (BH)max		Temp. Coefficient of Br T.C.α (Br)	Temp. Coefficient of Hcj T.C.β (HcJ)	Curie Temp.	Max Working Temp.	MMPA Equivalent	IEC Equivalent
	mT	Gs	kA/m	Oe	kJ/m ³	MGOe	%/°C	%/°C	°C	°C		
*FLN8	500	5,000	40	500	9	1.13	-0.02	-0.03	760	450	AlNiCo 3	AlNiCo 9/3
*FLNG12	700	7,000	48	600	12.4	1.55	-0.02	-0.03	810	450	AlNiCo 2	AlNiCo 12/6
*FLNGT18	600	6,000	90	1130	18	2.2	-0.02	-0.03	860	450	AlNiCo 3	AlNiCo 17/9
FLNG34	1200	12,000	48	600	34	4.25	-0.02	-0.03	890	450	AlNiCo 5	AlNiCo 37/5
FLNG37	1,250	12,500	48	600	37	4.63	-0.02	-0.03	890	450		
FLNGT28	1,050	10,500	60	600	28	3.5	-0.02	-0.03	850	450	AlNiCo 6	AlNiCo 37/5
FLNGT38	800	8,000	120	1,500	38	4.75	-0.02	-0.03	850	450	AlNiCo 8	AlNiCo 36/6
FLNGT42	880	8,800	120	1,500	42	5.25	-0.02	-0.03	820	450		AlNiCo 38/11
FLNGT33J	700	7,000	140	1,750	33	4.13	-0.02	-0.03	850	450	AlNiCo 8HC	AlNiCo 36/15

Note: "*" prior to the grade means isotropy and otherwise anisotropic.

If in any doubt, please contact us for technical assistance.

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