

AlNiCo Magnets Performance Datasheet

● **Cast AlNiCo Magnets**

Grade	Remanence		Coercive Force		Max. Energy Product		Curie Temp. Tc [°C]	Max Working Temp.		Temp. Coefficient of Br T.C.α (Br) [%°C]	MMPA Equivalent	IEC Equivalent	Germany Standard
	mT	Gs	kA/m	Oe	(BH)max kJ/m ³	MGOe		Tw [°C]					
*LN9	690	6,900	37	470	9.0	1.13	760	500	-0.03		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		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		/	/	
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		AlNiCo37/5		
LNG40	1,250	12,500	48	600	40.0	5.00	890	500	-0.02		/	AlNiCo500	
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				
LNG52	1,300	13,000	56	700	52.0	6.50	890	500	-0.02		AlNiCo52/6	AlNiCo 600GD	
LNG60	1,350	13,500	56	700	60.0	7.50	890	500	-0.02		/	AlNiCo700	
LNGT28	1,050	10,500	56	700	28.0	3.50	860	500	-0.02		AlNiCo26/6	AlNiCo400	
*LNGT18	580	5,800	90	1,130	18.0	2.20	860	500	-0.03		AlNiCo17/9	AlNiCo260	
LNGT32	800	8,000	100	1,250	32.0	4.25	860	500	-0.03		/	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		Alnico38/11	Alnico450	

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

Grade	Remanence (Br)		Coercive Force (Hcb)		Max. Energy Product (BH)max		Curie Temp. Tc. [°C]	Max Working Temp.		Temp. Coefficient of Br T.C.α (Br) [%°C]	MMPA Equivalent	IEC Equivalent	Germany Standard
	mT	Gs	kA/m	Oe	kJ/m ³	MGOe		Tw. [°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	Alnico60/11			
LNGT60	900	9,000	110	1,380	60.0	7.50	860	500	-0.03	Alnico9	/	/	
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) [%°C]		Temp. Coefficient of Hcj T.C.β (HcJ) [%°C]		Curie Temp. °C	Max Working Temp. °C	MMPA Equivalent	IEC Equivalent
	mT	Gs	kA/m	Oe	kJ/m ³	MGOe	%°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	AlNiCo 6	AlNiCo 37/5		
FLNGT28	1,050	10,500	60	600	28	3.5	-0.02	-0.03	850	450	AlNiCo 8	AlNiCo 36/6		
FLNGT38	800	8,000	120	1,500	38	4.75	-0.02	-0.03	850	450	AlNiCo 8	AlNiCo 38/11		
FLNGT42	880	8,800	120	1,500	42	5.25	-0.02	-0.03	820	450	AlNiCo 8HC	AlNiCo 36/15		
FLNGT33J	700	7,000	140	1,750	33	4.13	-0.02	-0.03	850	450				

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

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

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