

[Alnico-Magnet](#)

Alnico permanent magnet is an alloy magnet made from Al, Ni, Co Fe and other trace metal elements and can be produced through either sintering or casting process. The casting process allows for the magnet to be manufactured into intricate and complex shapes, which are not possible with other magnetic materials. The product has remarkable resistance against corrosion and high temperature, and is mainly used in certain precision instruments.

The Characteristics of Alnico Magnet:

- Small changes in magnetic properties to temperature effects
- Maximum working temperature can be as high as 450oC~550oC.
- Low coercive force.
- Strong corrosion resistance capability,no coating needed for surface protection.
- Typical Applications for Alnico magnet:
- Widely used applications such as instruments and meters which require very stable temperature properties.
- Electronic ignition systems,watt bour meters,volt-amp meters.medical instruments,industrial motors,magnetic reed switches,generators,hand tools,vending machines.



AlNiCo permanent magnets technical data

products name: Alnico-Magnet

Model No:Alnico-Magnet

[Related Keywords:] [Alnico-Magnet](#) [China Magnets](#)

Cast AlNiCo

材料牌号 Grade	剩磁 Br		矫顽力 HcJ		最大磁能积 (BH) max		密度 D G/cm3	Equivalent MMPA(US) Claas	温度系数 % Change Per C		居里温度 T ^{°C} °C	工作温度 Tw °C
	mT	Gs	KA/m	Oe	KJ/M3	MGOe			Near Br	Near HcJ		
LN9	680	6800	30	380	9.0	1.13	6.9	Alnico3	-0.03	-0.02	810	450
LN10	600	6000	40	500	10.0	1.20	6.9		-0.03	-0.02		
LNG12	720	7200	45	500	12.4	1.55	7.0	Alnico2	-0.03	-0.02	810	450
LNG13	700	7000	48	600	12.8	1.60	7.0					
LNG34	1200	12000	48	600	34.0	4.30	7.3	Alnico5	-0.02	+0.02	860	525
LNG37	1200	12000	48	600	37.0	4.65	7.3					

LNG40	1250	12500	48	600	4.0	5.0	7.3					
LNG44	1250	12500	52	650	4.4	5.5	7.3					
LNG52	1300	13000	56	700	5.2	6.5	7.3	Alnico5-7				
LNG60	1350	13500	59	740	6.0	7.5	7.3	Alnico5-7				
LNGT28	1000	10000	58	720	28.0	3.5	7.3	Alnico6	-0.02	+0.03	860	525
LNGT36J	700	7000	140	1750	36.0	4.5	7.3	Alnico8HC	-0.025	+0.02	860	550
LNGT18	580	5800	100	1250	18.0	2.2	7.3	Alnico8	-0.025	+0.02	860	550
LNGT32	800	8000	100	1250	32.0	4.0	7.3	Alnico8	-0.025	+0.02	860	550
LNGT40	800	8000	110	1380	40.0	5.0	7.3					
LNGT60	900	9000	110	1380	60.0	7.5	7.3	Alnico9	-0.025	+0.02	860	550
LNGT72	1050	10500	112	1400	72.0	9.0	7.3					

Sintering AlNiCo

牌号 Grade	剩磁 Br		矫顽力 Hcj		矫顽力 Hcb	最大磁能积 (BH)max	Curie Temp.	Temp.Coe	Density	备注		
	[mT]	[Gs]	[KA/m]	[Oe]	[KA/m]	[Oe]	[KJ/m3] [MGOe]	[°C]	abr[%/k]	g/cm3	Remark	
FLN8	520	5200	43	540	40	500	8-10	1.0-1.25	760	-0.020	6.7	各向同性 Isotropic
FLNG12	700	7000	43	540	40	500	12-14	1.5-1.75	810	-0.014	7.0	
FLNGT14	570	5700	78	980	76	950	14-16	1.75-2.0	850	-0.020	7.1	
FLNGT18	600	6000	107	1350	95	1200	18-22	2.25-2.72	850	-0.020	7.2	
FLNG28	1050	10500	47	590	46	580	28-23	3.5-4.15	850	-0.016	7.2	各向异性 Anisotropic
FLNG34	1100	11000	51	640	50	630	34-38	4.3-4.8	890	-0.016	7.2	
FLNGT28	1000	10000	57	710	56	700	28-30	3.5-3.8	850	-0.020	7.2	
FLNGT38J	730	7300	163	2050	151	1900	38-40	4.75-5.3	850	-0.200	7.2	
FLNGT38	800	8000	126	1580	123	1550	38-42	4.75-5.0	850	-0.020	7.2	
FLNGT42	880	8800	122	1530	120	1500	42-48	5.3-6.0	850	-0.020	7.25	

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