

China Alnico Magnets, Manufacturer, Supplier, Factory, Exporter in china

Alnico Magnet

Alnico magnet alloy is largely comprised of Aluminum, Nickel, Cobalt and Iron. Alnico is a moderately expensive magnet material because of the Cobalt and Nickel content. This alloy has very good corrosion resistance and a high maximum operating temperature. Some grades of this alloy can operate upwards of 550°C. Magnets made with this alloy are available in a variety of grades and dimensions and they are usually cast and finish ground to size. Alnico magnet material is a mature technology and it has a relatively low Energy Product (BH_{max}). This material is now mainly used in military, aerospace, older proprietary designs and in applications where the magnet will be exposed to elevated temperatures.



Magnetic Property of Alnico

| MAGNETIC CHARACTERISTICS OF CAST ALNICO | | | | | | | | | |
|---|--------------|-----------------|---------------------|-----|----------------|----------------|-------|-----------------|----------------|
| 1. Isotropy | | | | | | | | | |
| Grade | Br | H _{cb} | (BH) _{max} | D | T _c | T _w | aBr | MMPA Equivalent | IEC Equivalent |
| | [mT] [Gs] | [KAm] [Oe] | [Kj/M3] [MGOe] | | | | | | |
| LN9 | 690 | 37 | 9.0 | 6.9 | 760 | 450 | -0.03 | Alnico3 | Alnico9/3 |
| | 6900 | 470 | 1.13 | | | | | | |
| LN10 | 600 | 40 | 10.0 | 6.9 | 760 | 450 | -0.03 | Alnico3 | Alnico9/3 |
| | 6000 | 500 | 1.25 | | | | | | |
| LN12 | 720 | 45 | 12.0 | 7.0 | 810 | 450 | -0.03 | Alnico3 | Alnico12/6 |
| | 7200 | 600 | 1.50 | | | | | | |
| LN13 | 700 | 48 | 13.0 | 7.0 | 810 | 450 | -0.03 | Alnico3 | Alnico12/6 |
| | 7000 | 600 | 1.63 | | | | | | |

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|---|--------------|-----------------|---------------------|-----|----------------|----------------|-------|-----------------|----------------|
| Grade | Br | H _{cb} | (BH) _{max} | D | T _c | T _w | aBr | MMPA Equivalent | IEC Equivalent |
| | [mT] [Gs] | [KAm] [Oe] | [Kj/M3] [MGOe] | | | | | | |
| LN16 | 800 | 53 | 16.0 | 7.3 | 850 | 525 | -0.02 | [Alnico4] | / |
| | 8000 | 660 | 2.00 | | | | | | |
| LN18 | 1050 | 46 | 30.0 | 7.3 | 850 | 525 | -0.02 | [Alnico4] | / |

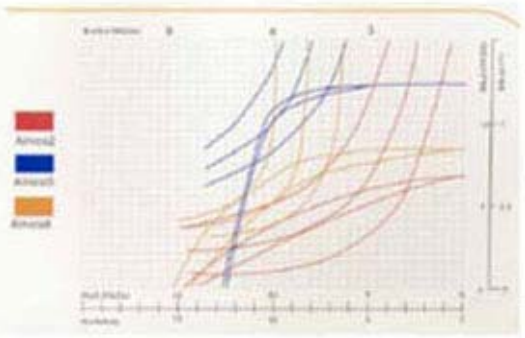
| MAGNETIC CHARACTERISTICS OF CAST ALNICO | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
|---|--|--|--|--|--|--|--|--|--|

| 1.Isotropy | | | | | | | | | |
|------------|-------|-------|---------|-----|-----|-----|-------|--------------------|-------------------|
| Grade | Br | Hcb | (BH)max | D | Tc | Tw | aBr | MMPA Equivalent | IEC Equivalent |
| | [mT] | [KAm] | [Kj/M3] | | | | | | |
| | [Gs] | [Oe] | [MGOe] | | | | | | |
| LNG32 | 1180 | 46 | 32.0 | 7.3 | 890 | 525 | -0.02 | [Alnico5] | / |
| | 11800 | 575 | 4.00 | | | | | | |
| LNG34 | 1180 | 46 | 34.0 | 7.3 | 890 | 525 | -0.02 | [Alnico5] | / |
| | 11800 | 575 | 4.25 | | | | | | |
| LNG37 | 1200 | 48 | 7.0 | 7.3 | 890 | 525 | -0.02 | Alnico5 | Alnico37/5 |
| | 12000 | 600 | 4.65 | | | | | | |
| LNG40 | 1250 | 48 | 40.0 | 7.3 | 890 | 525 | -0.02 | Alnico5 | / |
| LNG44 | 1250 | 52 | 44.0 | 7.3 | 890 | 525 | -0.02 | Alnico5 | Alnico44/5 |
| | 12500 | 650 | 45.0 | | | | | | |
| LNG48 | 1250 | 52 | 48.0 | 7.3 | 890 | 525 | -0.02 | Alnico5DG | Alnico52/6 |
| | 12500 | 650 | 6.00 | | | | | | |
| LNG52 | 1300 | 56 | 52.0 | 7.3 | 890 | 525 | -0.02 | Alnico5DG | Alnico52/6 |
| | 13000 | 700 | 6.50 | | | | | | |
| LNG60 | 1350 | 56 | 60.0 | 7.3 | 890 | 525 | -0.02 | Alnico5~7 | / |

MAGNETIC CHARACTERISTICS OF CAST ALNICO

| 1.Isotropy | | | | | | | | | |
|------------|-------|-------|---------|-----|-----|-----|-------|--------------------|-------------------|
| Grade | Br | Hcb | (BH)max | D | Tc | Tw | aBr | MMPA Equivalent | IEC Equivalent |
| | [mT] | [KAm] | [Kj/M3] | | | | | | |
| | [Gs] | [Oe] | [MGOe] | | | | | | |
| LNGT28 | 1050 | 56 | 28.0 | 7.3 | 860 | 525 | -0.02 | Alnico6 | Alnico26/6 |
| | 10500 | 700 | 3.50 | | | | | | |
| LNGT18 | 580 | 90 | 18.0 | 7.3 | 860 | 550 | -0.03 | [Alnico7] | Alnico17/9 |
| | 5800 | 1130 | 2.2 | | | | | | |
| LNGT32 | 800 | 100 | 32.0 | 7.3 | 860 | 550 | -0.03 | Alnico8 | Alnico38/11 |
| | 8000 | 1250 | 4.0 | | | | | | |
| LNGT34 | 800 | 104 | 34.0 | 7.3 | 860 | 550 | -0.03 | Alnico8 | Alnico38/11 |
| | 8000 | 1300 | 4.25 | | | | | | |
| LNGT38 | 820 | 110 | 38.0 | 7.3 | 860 | 550 | -0.03 | Alnico8 | Alnico38/11 |
| | 8200 | 1380 | 4.75 | | | | | | |
| LNGT44 | 880 | 120 | 44.0 | 7.3 | 860 | 550 | -0.03 | Alnico8 | / |
| | 8800 | 1500 | 5.50 | | | | | | |
| LNGT60 | 900 | 110 | 60.0 | 7.3 | 860 | 550 | -0.03 | Alnico9 | Alnico11 |
| | 9000 | 1380 | 7.50 | | | | | | |
| LNGT72 | 1050 | 112 | 72.0 | 7.3 | 860 | 550 | -0.03 | Alnico9 | / |
| | 10500 | 1410 | 9.00 | | | | | | |
| LNGT82 | 1100 | 120 | 82.0 | 7.3 | 860 | 550 | -0.03 | Alnico9 | / |
| | 11000 | 1500 | 10.25 | | | | | | |
| LNGT36J | 700 | 140 | 36.0 | 7.3 | 860 | 550 | -0.03 | Alnico8HC | Alnico36/15 |

B-H Curve of Alnico2, Alnico5 & Alnico8



| Typical Physical Properties of Alnico | |
|---|-------------------|
| Curie Temperature(•C) | 860 |
| Maximum Operating Temperature(•C) | 450-550 |
| Resistivity(μ ohm.cm) | 47-54 |
| Hardness(Hv) | 520-630 |
| Density(g/cm3) | 6.90-7.30 |
| Relative Recoil Permeability(μ_{rec}) | 1.70-4.70 |
| Saturation Field Strength,Koe(kA/m) | 2.7-6.3(215-5000) |
| Temperature Coefficient of Br(%/•C) | -0.025~-0.02 |
| Temperature Coefficient of Hc(%/•C) | +0.01~+0.03 |



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