

AlNiCo (sintered)

Property Table

English Version
For reference only

- Remanence (B_r), measure the strength of the magnetic field;
- Coercivity (H_{cb}), the material's resistance to becoming demagnetized;
- Energy product (BH_{max}), the density of magnetic energy, which relates to the magnetic flux output per unit volume. Higher values indicate stronger magnets
- Curie temperature (T_c), the temperature at which the material loses its magnetism.

Sintered AlNiCo - Property Table - CGS unit

Grade	(min.) Remanence (Br) kGs	(min.) Coercivity (Hcb) kOe	Max Energy Product (BH)max MGOe	Max Working Temperature (Tw) °C	Curie Temperature (Tc) °C	Remarks
FLN8	5.0	0.50	1.13	450	760	Alnico 3
FLNG12	7.0	0.60	1.55	450	810	Alnico 2
FLNG14	5.0	0.75	1.80	450	850	-
FLNG28	10.5	0.58	3.50	450	850	-
FLNG34	12.0	0.60	4.25	450	890	Alnico 5
FLNG37	12.5	0.60	4.62	450	890	-
FLNGT18	6.0	1.13	2.20	450	860	Alnico 8
FLNGT28	10.5	0.60	3.50	450	850	Alnico 6
FLNGT31	7.8	1.30	3.90	550	850	Alnico 8
FLNGT38	8.0	1.50	4.75	450	850	Alnico 8
FLNGT42	8.8	1.50	5.25	450	820	Alnico 8
FLNGT33J	7.0	1.75	4.13	450	850	-
FLNGT38J	7.3	1.90	4.75	550	850	Alnico 8HC

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Sintered AlNiCo - Property Table - SI unit

Grade	(min.) Remanence (Br) mT	(min.) Coercivity (Hcb) kA/m	Max Energy Product (BH)max kJ/m ³	Max Working Temperature (Tw) °C	Curie Temperature (Tc) °C	Remarks
FLN8	500	40	9.0	450	760	Alnico 3
FLNG12	700	48	12.0	450	810	Alnico 2
FLNG14	500	60	14.0	450	850	-
FLNG28	1050	46	28.0	450	850	-
FLNG34	1200	48	34.0	450	890	Alnico 5
FLNG37	1250	48	37.0	450	890	-
FLNGT18	600	90	18.0	450	860	Alnico 8
FLNGT28	1050	60	28.0	450	850	Alnico 6
FLNGT31	780	104	33.0	550	850	Alnico 8
FLNGT38	800	120	38.0	450	850	Alnico 8
FLNGT42	880	120	42.0	450	820	Alnico 8
FLNGT33J	700	140	33.0	450	850	-
FLNGT38J	730	151	38.0	550	850	Alnico 8HC

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