

Anisotropic Sintered AlNiCo

Material Grade



Main Properties	Remanence		Coercive Force		Intrinsic Coercive Force		Max. Energy Product		Rev.Temp.Coef. of Induction / Coercivity		Working Temperature
	Br		HcB		HcJ		BH max				
Grade	Typical mT	Typical Gauss	min kA/m	min Oersted	min kA/m	min Oersted	Typical kJ/m3	Typical MGOe	α (Br) %/°C	α (HcJ) %/°C	maximum °C
AINiCo 5 (FLNG34)	1150	11500	48	600	50	630	34	4.25	-0.02	+0.01	525°C
AINiCo 6 (FLNG28)	1100	11000	58	730	60	750	28	3.5	-0.02	+0.03	525°C
AINiCo 8HC (FLNG36J)	720	7200	150	1880	152	1900	36	4.5	-0.02	+0.01	550°C
AINiCo 8 (FLNGT38)	800	8000	110	1380	112	1400	38	4.75	-0.02	+0.01	550°C
AINiCo 8 (FLNGT44)	850	8500	120	1500	122	1530	44	5.5	-0.02	+0.01	550°C
AINiCo 8 (FLNGT48)	920	9200	125	1560	127	1590	48	5.5	-0.02	+0.01	550°C

* The material data shown above represent properties that may vary due to product shape and size.

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AINiCo 2 (FLNG12)	750	7500	45	560	46	580	12	1.50	-0.03	-0.02	450°C
AINiCo 3 (FLN10)	650	6500	40	500	42	530	10	1.25	-0.03	-0.02	450°C
AINiCo 8 (FLNGT18)	600	6000	95	1190	98	1230	18	2.25	-0.02	+0.01	550°C
AINiCo 8 (FLNGT20)	620	6200	100	1250	105	1310	20	2.50	-0.02	+0.01	550°C

Typical Physical Properties

Property	um	value
Density	kg/m ³	7.3 x 10 ³
Bending Strength	kg/m ²	2.0 x 10 ³
Compressive Strength	kg/m ²	4.8 x 10 ³
Vickers Hardness (Hv)	Hv	520 - 700
Electrical Resistivity	m	4.7 x 10 ³
Thermal Expansion Coefficient parallel to M	//M	11.4 x 10 ⁻⁶
Thermal Expansion Coefficient perpendicular to M	-I M	11.4 x 10 ⁻⁶
Curie Temperature	°C	860