

Magnetic Properties of AlNiCo Magnets--IEC Standard

Grade	Remanence Br		Coercive force Hcb		Intrinsic Coercive force Hcj		Maximum Energy (BH)max	
	KGs	mT	Oe	KA/m	Oe	KA/m	MGOe	KJ/m ³
Cast Alnico 1 (Alnico 120)	6000-6600	600-660	500-550	40-44	520-570	41-45	1.20-1.30	10-11
Cast Alnico 2 (Alnico 160)	7200-7920	720-792	650-715	52-57	670-735	53-59	1.90-2.10	15-17
Cast Alnico 5 (Alnico 500)	12200-13420	1220-1342	600-660	48-53	620-680	49-54	4.80-5.30	38-42
Cast Alnico 5-7 (Alnico 700)	12500-13750	1250-1375	700-770	56-61	720-790	57-63	5.90-6.50	47-52
Cast Alnico 6 (Alnico 400)	9000-9900	900-990	720-792	57-63	740-812	59-65	3.50-3.90	28-31
Cast Alnico 8 (Alnico 450)	8800-9680	880-968	1380-1518	110-121	1400-1538	111-122	5.90-6.50	47-52
Cast Alnico 9	7000-7700	700-770	1700-1870	135-149	1720-1890	137-150	4.30-4.70	34-37
Sintered Alnico 5	11000	1100	600	48	600	48	4.20-5.00	34
Sintered Alnico 6	10000	1000	700	56	700	56	3.00-5.00	28
Sintered Alnico 8	8000	800	1500	120	1500	120	4.70-5.00	38

Note:

1. The data mentioned above of magnetic performance and physical properties are given at room temperature 20°C.
2. Curie temperature and temperature coefficient are for reference only, but not as an inspection items.
3. The max working temperature is changeable due to length-diameter ratio, coating thickness and environment factors.