

Magnetic Properties of Cast AlNiCo Magnets

Grade No.	Max. Energy Product (BH) max		Residual Induction Br		Coercive Force Hc		Intrinsic Coercive Force Hci		Max. Service Temperature	
	(MGOe)	(KJ/m3)	(k/gauss)	(mT)	(k/oersteds)	(kA/m)	(k/oersteds)	(kA/m)	°F	°C
B8	1.0-1.1	8.0-9.0	4500-4950	450-495	700-770	56-61	720-790	57-63	842	450
B10	1.2-1.3	10.0-11.0	6000-6600	600-660	500-550	40-44	520-570	41-45	842	450
B16	1.9-2.1	15-17	7200-7920	720-792	650-715	52-57	670-735	53-59	842	450
B34	4.1-4.5	33-36	12000-13200	1200-1320	550-605	44-48	570-625	45-50	977	525
B37	4.5-5.0	40-40	12000-13200	1200-1320	600-660	48-53	620-680	49-54	977	525
B37DG	4.3-4.7	34-37	11000-12100	1100-1210	670-737	53-59	690-757	55-60	977	525
B40	4.8-5.3	38-42	12200-13420	1220-1342	600-660	48-53	620-680	49-54	977	525
B52H	5.9-6.5	47-52	12500-13750	1250-1375	700-770	56-61	720-790	57-63	977	525
B28	3.5-3.9	28-31	9000-9900	900-990	720-920	57-63	740-812	59-65	977	525
B38	4.7-5.2	37-41	8000-8800	800-880	1380-1518	110-121	1400-1538	111-122	1022	550
B52	5.9-6.5	47-52	8800-9680	880-968	1380-1518	110-121	1400-1538	111-122	1022	550
B60	7.0-7.7	56-61	9000-9900	900-990	1380-1518	110-121	1400-1538	111-122	1022	550
B36J	4.3-4.7	34-37	7000-7700	700-770	1700-1870	137-150	1720-1890	137-150	1022	550

Magnetic Properties of Sintered AlNiCo Magnets

Grade No.	Max. Energy Product (BH) max		Residual Induction Br		Coercive Force Hc		Intrinsic Coercive Force Hci		Max. Service Temperature	
	(MGOe)	(KJ/m3)	(k/gauss)	(mT)	(k/oersteds)	(kA/m)	(k/oersteds)	(kA/m)	°F	°C
C8	1.13	9	5500	550	530	42			842	450
C12	1.55	12.4	7000	700	600	48			842	450
C18	2.2	18	5800	580	1130	90			842	450
C34	4.25	34	11000	1100	600	48			842	450
C28	3.5	28	10000	1000	700	56			842	450
C38	4.75	38	8000	800	1500	120			842	450
C42	5.25	42	8800	880	1500	120			842	450
C33J	4.13	33	6800	680	1750	140			842	450