

Sintered AlNiCo Magnets

Material Properties

Premium Material Grade	Residual Induction Br Gauss	Coercivity HcB Oe	Intrinsic Coercivity HcJ Oe	Maximum Energy Product (BH)max MGOe
	TYP	TYP	TYP	TYP
Tri-Sintered AlNiCo-2	5200	500	540	1.0 - 1.25
	7000	500	540	1.5 - 1.75
Tri-Sintered AlNiCo-3	5700	950	980	1.75 - 2.0
	5600	1100	1130	2.25 - 2.75
Tri-Sintered AlNiCo-5	10500	580	590	3.5 - 4.15
	11000	630	640	4.3 - 4.8
Tri-Sintered AlNiCo-6	10000	700	710	3.5 - 3.8
	7800	1300	1330	3.9 - 4.5
Tri-Sintered AlNiCo-8	6500	1700	1880	4.15 - 4.5
	8000	1550	1580	4.75 - 5.3
Tri-Sintered AlNiCo-9	8800	1500	1530	5.3 - 6.0

NOTES: 1. Finished magnet size and shape may limit magnetic properties.
2. Design evaluation services are available.

Physical Properties

Characteristics	Mark	Unit	
Temperature Coefficient	K	% / °C	-0.01~ -0.03
Curie Temperature	Tc	°C	750 ~ 820
Density	P	gr /cm ³	7.3
Vickers Hardness	HRc	D.P.N.	45 ~ 60
Electrical Resistivity	R	μΩ• cm	50~ 75
Coefficient of Thermal Expansion (0~200°C)	C//	10 ⁻⁶ /°C	11~ 13.5