

Main Physical and Mechanical Properties of AlNiCo Magnet

Grade	Density	Tensile Strength	Transverse Modulus of Rupture	Hardness	Specific Electric Resistance (at 25 °C)	Specific Heat	Specific Thermal Conductivity	Coefficient Of Thermal Expansion	Saturation Field Strength
	g/cm ³	N/mm ²	N/mm ²	HRC	μΩ. cm	J/(kg. k)	W/m. k	10 ⁻⁶ /k	kA/M
Cast AlNiCo	6.9-7.3	20-160	50-310	45-55	45-75	350-450	10-100	13-14	180-750
Sintered AlNiCo	6.8-7.0	350-450	380-690	45-50	50-70	350-450	10-100	11-13	180-750