

Magnetic and mechanical properties of semi-hard magnetic materials and ductile permanent magnetic alloys

Material		SEM	NAT	2J4	2J11	2J32	2J84	2J85		
Main Components					FeCoV(Ni)		FeCrCo			
Tropism	Isotropic						⊙		⊙	
	Anisotropic	⊙	⊙	⊙	⊙	⊙	⊙		⊙	
Forms of Supply	Wire	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
	Strip	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
	Plate						⊙	⊙	⊙	
	Bar						⊙	⊙	⊙	
Remanence Br (T)				Bu 1.3~1.6	Bu 0.9~1.2	0.75~1.0 0	1.2~1.3 5	0.8~1.0	1.3~1.4 5	0.9~1.1
Coercivity Hc (KA/M)				Hu 4~4.8	Hu 16~20	23~30	≥52		≥44	
Energy density (BH)max (KJ/M3)				Ku ≥0.62	Ku ≥0.57		32~40		44~48	
Density (g/cm ³)		7.8	7.6	8.2	8.1	8.1	7.78		7.78	
Curie temperature (°C)		700	630				670		670	
Max. work temperature (°C)		450	300	500	500	500	450		450	
Expansion coefficient α ₂₀₋₃₀₀ (10 ⁻⁶ /°C)				10.7	11.2	11.2				
Resistivity (uΩ • m)				0.33	0.77	0.75	0.64		0.64	
Vickers Hardness HV	cold						330		330	
	annealed	255					230		230	
	aged			HRC 40~46			480		480	
Tensile strength MPa	cold						1200		1200	
	annealed	850					630		630	
	aged									
Elongation %	cold									
	annealed	60					20		20	
	aged									

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