

Typical Magnetic Properties of Soft Magnets

FeCoV Soft Magnetics Alloy										
Grade	Level	Magnetic Induction						Coercive Force		
		B400	B800	B1600	B2400	B4000	B8000	Hc		
		T(Min)						A/m(Max)		
1J21	I	1.8	2	2.1	2.3	2.4	-	80		
	II	1.8	2	2.1	2.3	2.4	-	48		
1J22	-	1.6	1.8	2	2.1	2.2	2.2	128		
FeCoV Magnetic Hysteresis Alloy										
Grade	Semi-processed	Level	B(m) ±1.23T		B(m) ±1.36T		B(m) ±1.42T			
			Hm	Pro(10 ⁵ erg/cm ³ Hz)	Hm	Pro(10 ⁵ erg/cm ³ Hz)	Hm	Pro(10 ⁵ erg/cm ³ Hz)		
			(A/m)	cm ³ Hz	(A/m)	cm ³ Hz	(A/m)	cm ³ Hz		
2J4	Cold rolled strip	I	≤4400	≥1.44	≤4800	≥1.65	≤5200	≥1.85		
		II	Measured in magnetic field 5174 A/m			Measured in magnetic field 9552 A/m				
			Br	Hc	Pro(10 ⁵ erg/cm ³ Hz)	Br	Hc	Pro(10 ⁵ erg/cm ³ Hz)		
			(T)	(A/m)	cm ³ Hz	(T)	(A/m)	cm ³ Hz		
		≥1.1	≥3582	≥1.8	≥1.1	≥3582	≥2.6			
FeNi Soft Magnetic Alloy										
Grade	Semi-processed	Level	Thickness/Diameter	U _{0.4}	Um	Hc	Bs			
			mm	mH/m(min)		A/m(max)	T(min)			
1J50	Cold rolled strip	II	0.10-0.19	3.8	43.8	12	1.5			
			0.20-0.34	4.4	56.3	10.4				
			0.35-0.50	5	65	8.8				
			0.51-1.00	5	50	10				
			1.10-2.50	3.8	44	12				
1J85	Cold rolled strip	I	0.20-0.34	50	225	1.2	0.7			
			0.35-1.00	62.5	312.5	0.8				
			1.10-2.50	50	187.5	1.2				
			2.51-3.00	43.8	150	1.4				
Anti-corrosion Soft Magnetic Alloy										
Grade	Magnetic Induction					Remanence Induction			Um	Hc
	B240	B400	B800	B2400	B3200	Br240	Br2400	Br3200	mH/m(min)	A/m(max)
	T(min)					T(max)				
1J117	0.9	-	1	-	1.25	-	-	-	-	80
Cr17NiTi	-	0.9	1	1.2	-	-	0.95	-	3.75	80