



Typical Magnetic Properties of Soft Magnets

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FeCoV Soft Magnetic 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	Intermediate species	Level	B(m)±1.23T		B(m)±1.36T		B(m)±1.42T			
			Hm	Pro (10 ⁵ erg/ cm ³ Hz)	Hm	Pro	Hm	Pro (10 ⁵ erg/cm ³ Hz)		
			(A/m)		(A/m)	(10 ⁵ erg/ cm ³ Hz)	(A/m)			
2J4	Cold rolled strip	I	≤4400	≥1.44	≤4800	≥1.65	≤5200	≥1.85		
		II	5174A/m			9552A/m				
			Br	Hc	Pro (10 ⁵ erg/ cm ³ Hz)	Br	Hc	Pro		
			(T)	(A/m)		(T)	(A/m)	(10 ⁵ erg/cm ³ Hz)		
			≥1.1	≥3582	≥1.8	≥1.1	≥3582	≥2.6		
FeNi Soft Magnetic Alloy										
Grade	Intermediate species	Level	Thickness/Diameter (mm)	U _{0.4}	Um	Hc	Bs			
				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