



FeCrCo Magnets

FeCrCo magnet is the magnetic alloy developed in the 1970s with excellent ductility and machinability before heat treatment — bendable into complex shapes. High operating temperature and relatively low cobalt content for sensors, automotive, and electronic components.



X-MAG's capabilities cover magnetic engineering & simulation, automated sustainable manufacturing, comprehensive quality assurance, and advanced magnet R&D.

Typical Magnetic Properties of FeCrCo Magnets

Grade	Remanence		Coercivity				Max Energy Product		Temperature Coefficient		Max Working Temperature	Density	Remarks
	Br		HcB		HcJ		(BH)max		a (Br)	β (HcJ)	TwMax	ρ	
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	%/ ° C	%/ ° C	° C	g/cm3	
FeCrCo10/3	0.82	8.2	27	0.34	29	0.36	10	1.25	-0.03	-0.04	400	7.6	Isotropic
FeCrCo12/4	0.8	8	40	0.5	42	0.53	12	1.5	-0.05	-0.04	400	7.6	
FeCrCo16/2	1.3	13	20	0.25	22	0.275	16	2	-0.03	-0.04	400	7.6	Anisotropic
FeCrCo28/5	1	10	45	0.57	46	0.58	28	3.5	-0.03	-0.04	400	7.6	
FeCrCo30/4	1.15	11.5	40	0.5	41	0.51	30	3.8	-0.03	-0.04	400	7.6	
FeCrCo35/5	1.05	10.5	50	0.63	51	0.64	35	4.4	-0.03	-0.04	400	7.6	
FeCrCo36/5	1.2	12	52	0.66	54	0.68	36	4.5	-0.03	-0.04	400	7.8	
FeCrCo44/4	1.3	13	44	0.56	45	0.57	44	5.5	-0.03	-0.04	400	7.7	
FeCrCo52/5	1.35	13.5	48	0.6	49	0.62	52	6.5	-0.03	-0.04	400	7.7	