Sintered Neodymium-Iron-Boron Magnets

Magnetic Properties

Typical Magnetic Properties of Sintered Nd-Fe-B Magnets

Magnet Grade	Residual Induction B_r				Coercivity H_c				Intrinsic Coercivity $_iH_c$		Maximum Energy Product $(BH)_{max}$				Maximum Operating Temperature
	kG		T		kOe		kA/m		kOe	kA/m	MGOe		kJ/m^3		°C
	Nom.	Min.	Nom.	Min.	Nom.	Min.	Nom.	Min.	Nom.	Min.	Nom.	Min.	Nom.	Min.	L/D≥0.7
EEC N50	14.3	14.0	1.43	1.40	12.3	11.6	979	923	12	955	50	48	398	382	80
EEC N48	14.0	13.5	1.40	1.35	12.1	11.8	963	939	12	955	48	46	382	366	80
EEC N45	13.6	13.3	1.36	1.33	12.1	11.8	963	939	12	955	45	43	358	342	80
EEC N42	13.3	13.0	1.33	1.30	12.3	11.9	979	947	12	955	42	40	334	318	80
EEC N40	12.9	12.6	1.29	1.26	11.9	11.6	947	923	12	955	40	38	318	302	80
EEC 48M	13.9	13.6	1.39	1.36	12.9	12.3	1027	979	14	114	50	48	398	382	100
EEC 45M	13.6	13.3	1.36	1.33	12.1	11.8	963	939	14	114	45	43	358	342	100
EEC 42M	13.3	13.0	1.33	1.30	12.4	12.0	987	955	14	114	42	40	334	318	100
EEC 46H	13.7	13.4	1.37	1.34	13.0	12.6	1035	1003	17	1353	46	44	366	350	120
EEC 44H	13.5	13.2	1.35	1.32	12.0	11.5	955	915	17	1353	45	42	358	334	120
EEC 42H	13.1	12.8	1.31	1.28	12.0	11.5	955	915	17	1353	42	40	334	318	120
EEC 40H	13.0	12.6	1.30	1.26	12.0	11.5	955	915	17	1353	40	38	318	302	120
EEC 44SH	13.5	13.2	1.35	1.32	12.8	12.4	1019	987	20	1592	44	42	350	334	150
EEC 42SH	13.1	12.8	1.31	1.28	12.4	12.1	987	963	20	1592	42	40	334	318	150
EEC 40SH	13.0	12.6	1.30	1.26	12.3	12.0	979	955	20	1592	40	38	318	302	150
EEC 38SH	12.6	12.3	1.26	1.23	12.1	11.7	963	931	20	1592	38	36	302	287	150
EEC 35SH	12.0	11.7	1.20	1.17	11.6	11.1	923	884	20	1592	35	33	279	263	150
EEC 40UH	13.0	12.6	1.30	1.26	12.3	12.0	979	955	25	1990	40	38	318	302	180
EEC 38UH	12.6	12.3	1.26	1.23	12.1	11.7	963	931	25	1990	38	36	302	287	180
EEC 35UH	12.0	11.7	1.20	1.17	11.6	11.1	923	884	25	1990	35	33	279	263	180
EEC 33UH	11.5	11.1	1.15	1.11	10.8	10.5	860	836	25	1990	33	31	263	247	180
EEC 30UH	11.2	10.8	1.12	1.08	10.3	10.0	820	796	25	1990	30	28	239	223	180
EEC 35EH	12.0	11.7	1.20	1.17	11.6	11.1	923	884	30	2388	35	33	279	263	200
EEC 33EH	11.5	11.1	1.15	1.11	10.8	10.5	860	836	30	2388	33	31	263	247	200
EEC 30EH	11.2	10.8	1.12	1.08	10.3	10.0	820	796	30	2388	30	28	239	223	200

Detailed second quareant demagnetization curves and additional design data available at www.electronenergy.com

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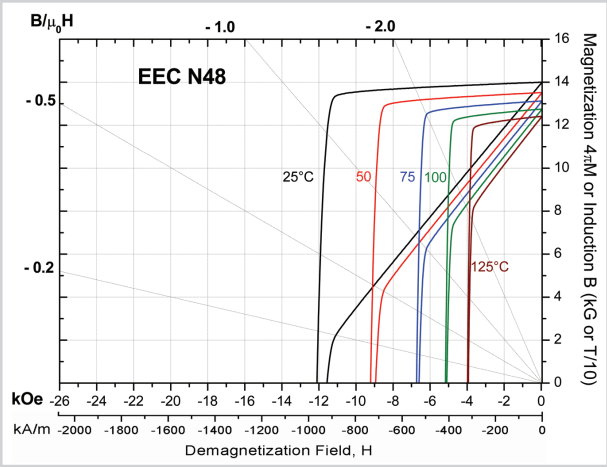

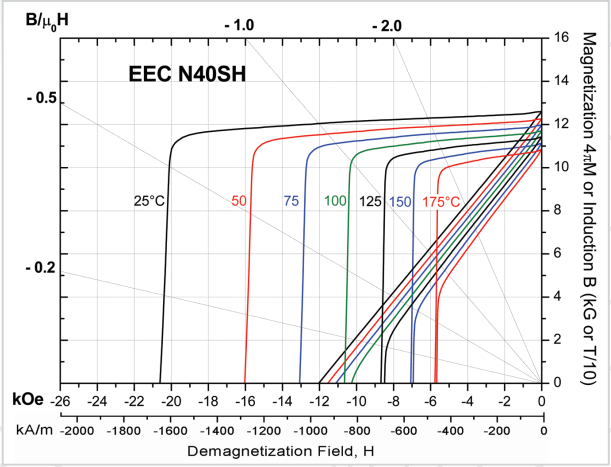

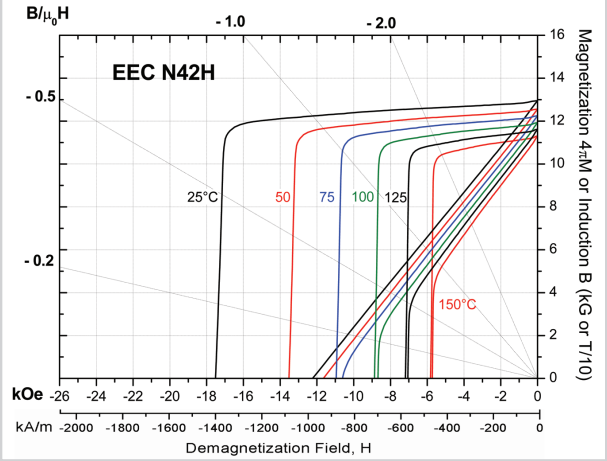

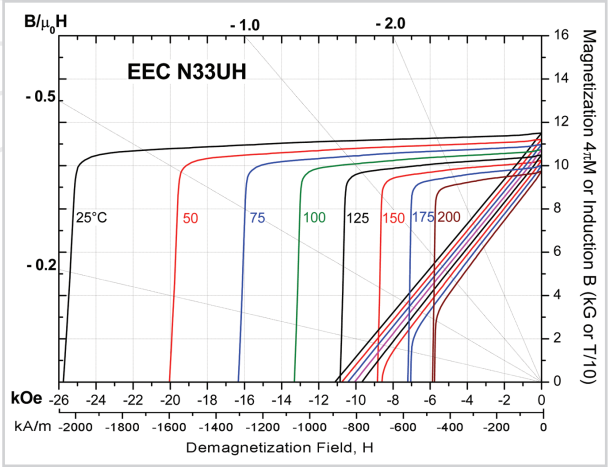

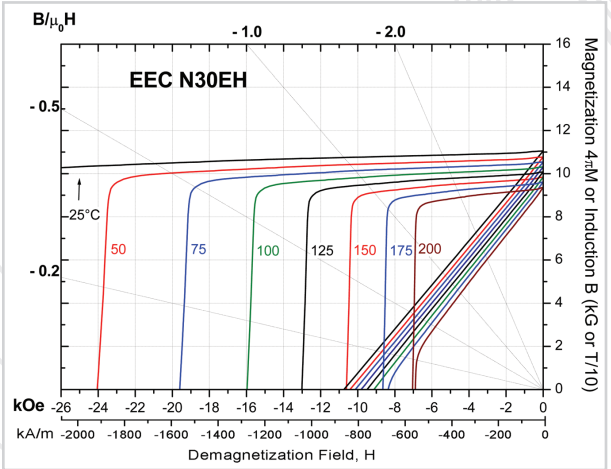

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