

Magnetic Properties of GBD Magnet



Magnetic properties of sintered Nd-Fe-B permanent magnets at room temperature (20 °C)

No.	Material	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (°C)
	Grade	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1	G52SH	1.42 - 1.47	14.2 - 14.7	1592	20	1035	13	390 - 422	49 - 53	150 °C
2	G48UH	1.37 - 1.42	13.7 - 14.2	1990	25	1035	13	358 - 390	45 - 49	180 °C
3	G50UH	1.39 - 1.44	13.9 - 14.4	1990	25	1035	13	374 - 406	47 - 51	180 °C
4	G45EH	1.32 - 1.36	13.2 - 13.6	2388	30	1003	12,6	342 - 366	43 - 46	200 °C
5	G48EH	1.37 - 1.42	13.7 - 14.2	2308	29	1035	13	358 - 390	45 - 49	200 °C
6	G40AH	1.25 - 1.29	12.5 - 12.9	2786	35	947	11,9	302 - 326	38 - 41	240 °C
7	G42AH	1.28 - 1.32	12.8 - 13.2	2786	35	971	12,2	318 - 342	40 - 43	240 °C

Note: G refers to the grain boundary diffusion – GBD material grades.