

Magnetic Properties Of Bonded Neodymium Magnet

Grade		TN-1	TN-2	TN-3	TN-4	TN-5	TN-6	TN-7	TN-7H	TN-8	TN-8H	TN-9	TN-10	TN-10H	TN-11	TN-12
Residual magnetic induction (Br)	(mT)	290-340	380-420	380-420	460-500	480-530	530-580	610-650	590-630	630-680	600-660	650-690	670-710	640-680	690-730	700-740
	(KGs)	2.9-3.4	3.8-4.2	3.8-4.2	4.6-5.0	4.8-5.3	5.3-5.8	6.1-6.5	5.9-6.3	6.3-6.8	6.0-6.6	6.5-6.9	6.7-7.1	6.4-6.8	6.9-7.3	7.0-7.4
Coercivity (Hcb)	(KA/m)	150-200	180-240	205-255	230-290	255-320	295-350	350-415	390-440	400-440	380-435	395-440	410-455	435-480	420-475	435-495
	(KOe)	1.9-2.5	2.3-3.0	2.6-3.2	2.9-3.6	3.2-4.0	3.7-4.4	4.4-5.2	4.9-5.5	5.0-5.5	4.8-5.4	5.0-5.5	5.2-5.7	5.5-6.0	5.3-5.9	5.5-6.2
Intrinsic coercivity force (Hcj)	(KA/m)	325-375	330-385	540-585	580-630	590-640	605-655	620-680	1035-1120	675-755	800-960	675-755	675-760	940-1025	675-760	690-815
	(KOe)	4.1-4.7	4.2-4.8	6.8-7.3	7.3-7.9	7.4-8.0	7.6-8.2	7.8-8.5	13-14	8.5-9.4	10.0-12.0	8.5-9.4	8.5-9.5	11.8-12.8	8.5-9.5	8.7-10.2
Maximum energy product (BH)max	(KJ/m ³)	14-18	20-24	25-29	31-35	39-43	46-50	60-65	58-63	66-70	62-66	69-73	72-76	70-75	78-82	82-86
	(MGOe)	1.8-2.2	2.5-2.9	3.2-3.6	3.9-4.4	4.9-5.4	5.9-6.3	7.6-8.1	7.3-7.9	8.3-8.7	7.8-8.2	8.7-9.1	9.1-9.5	8.9-9.3	9.9-10.3	10.3-10.7
Reversible permeability	(μH/M)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Average reversible temperature coefficient	(%/°C)	-0.11	-0.11	-0.1	-0.1	-0.11	-0.11	-0.12	-0.1	-0.12	-0.1	-0.12	-0.12	-0.1	-0.12	-0.12
Saturation magnetization field	KA/m	≥1600	≥1600	≥1600	≥1600	≥1600	≥1600	≥1600	≥2000	≥1600	≥2000	≥1600	≥1600	≥2000	≥1600	≥1600
	KOe	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥25	≥20	≥25	≥20	≥20	≥25	≥20	≥20
Maximum working temperature	(°C)	160	160	180	180	160	160	160	180	160	180	160	160	180	160	160
Density	(g/cm ³)	5.1-5.3	5.4-5.6	4.8-5.0	5.1-5.3	5.4-5.6	5.7-5.9	5.9-6.1	5.9-6.1	5.9-6.1	5.9-6.1	5.9-6.1	5.9-6.1	5.9-6.1	5.9-6.1	5.9-6.1

Note: Parameters can be adjusted according to customer requirements.

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