

Bonded Neodymium Magnet

Magnetic Properties

Grade	Unit	BN-2	BN-4	BN-6	BN-8L	BN-8	BN-8SR	BN-10	BN-10H	BN-12	BN-12L	BN-13L
Remanence (Br)	(mT)	300-400	400-500	500-600	600-650	630-680	620-680	680-730	700-750	720-770	760-810	780-830
Max. Energy Product (Hcb)	(KA/m)	240-320	240-320	320-400	360-440	400-480	400-480	400-480	440-520	440-520	400-480	400-480
	(KOe)	(3.0-4.0)	(3.0-4.0)	(4.0-5.0)	(4.5-5.5)	(5.0-6.0)	(5.0-6.0)	(5.0-6.0)	(4.5-6.5)	(5.5-6.5)	(5.0-6.0)	(5.0-6.0)
Max. Energy Product (Hcj)	(KA/m)	480-640	560-720	560-720	640-800	640-800	880-1120	640-800	640-800	720-800	480-640	480-640
	(KOe)	(6.0-8.0)	(7.0-9.0)	(7.0-9.0)	(8.0-10.0)	(8.0-10.0)	(11.0-14.0)	(8.0-10.0)	(8.0-10.0)	(9.0-10.0)	(6.0-8.0)	(6.0-8.0)
Max. Energy Product (BH max)	(KJ/m3)	24-32	32-44	52-60	60-68	68-76	68-76	76-84	80-88	88-96	88-96	88-104
	(MGOe)	(3.0-4.0)	(4.0-5.5)	(6.5-7.5)	(7.5-8.5)	(8.5-9.5)	(8.5-9.5)	(9.5-10.5)	(10.0-11.0)	(11.0-12.0)	(11.0-12.0)	(11.0-13.0)
Recoil Permeability (ur)	(μ H/M)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Tempetrature Coefficient	(%/°C)	-0.11	-0.11	-0.11	-0.11	-0.11	-0.1	-0.1	-0.1	-0.1	-0.12	-0.12
Curie Temperature (Tc)	(°C)	300	300	300	300	350	350	350	350	350	320	320
Max.Operating Temperature	(°C)	160	160	160	160	160	180	160	160	160	150	150
Max. Energy Product	(KA/m)	>1600	>1600	>1600	>1600	>1600	>3000	>1600	>1600	>1600	>1600	>1600
	(KOe)	>20	>20	>20	>20	>20	>25	>20	>20	>20	>20	>20
Density (ρ)	(g/cm3)	4.5-5.0	5.0-5.5	5.5-6.0	5.8-6.0	5.8-6.1	5.8-6.1	5.8-6.1	6.0-6.3	6.0-6.3	6.0-6.3	6.1-6.4
Hardness	HRB	40-45	40-45	40-45	35-38	35-38	35-38	35-38	35-38	35-38	35-38	35-38