

Charts/graphs reference typical magnet performance.

Grade	Max Energy Product	Residual Induction	Min Intrinsic Coercivity	Coercivity	Max Operating Temp	Curie Temp	Coefficient Induction 20-150°C
	BH _{max}	Br	H _{ci}	H _c	T _{max}	T _c	α
	kJ/m ³	mT	kA/m	kA/m	°C	°C	% / °C
BN0406	31.8	300-400	477.5	239-318	160	300	-0.11
BN0607	47.7	400-500	557.0	239-318	160	300	-0.11
BN0707	59.7	500-600	557.0	318-398	160	300	-0.11
BN0908	71.6	600-680	636.6	358-438	160	300	-0.11
BN0908	71.6	600-680	636.8	398-477	160	350	-0.11
BN0913	71.6	600-660	1034.5	398-477	180	350	-0.10
BN0910	75.6	620-680	795.8	398-477	180	350	-0.10
BN1008	83.6	680-730	636.6	398-477	160	350	-0.10
BN1108	87.5	700-750	636.6	438-517	160	350	-0.10
BN1209	95.5	720-770	716.2	438-517	160	350	-0.10
BN1210	95.5	740-800	756.0	438-517	160	350	-0.10
BN1206	95.5	760-810	477.5	398-477	150	320	-0.12

Properties	CGS	SI
Density	6.0 g/cm ³	6000 kg/m ³

NeoForm® bonded Neodymium magnets are made of the powerful Nd-Fe-B material mixed into an epoxy binder. The mix is approximately 97 vol% magnet material to 3 vol% epoxy. The manufacturing process involves combining Nd-Fe-B powder with an epoxy binder and compressing the mixture in a press and curing the part in an oven. Since the material is formed by compression bonding, the dimensions typically vary 0.0508mm or better for a given run.

NeoForm material is isotropic, so it can be magnetized through any direction, including multi-polar arrangements. Because the material is in an epoxy binder, it can be machined on a mill or lathe. However, the material will not support a thread, so holes cannot be tapped. NeoForm® material is often used to substantially reduce the size of designs that used ceramic magnet materials. Significant size reductions can be achieved because NeoForm® material is approximately 3 times stronger than ceramic magnet material. In addition, since NeoForm® material is isotropic, it can be magnetized multi-polar, such as a N-S-N-S pattern on the outer diameter of a ring.

Still have questions? Check out our [Bonded Magnet Materials FAQ](#) under the Resource section of our website.

Our teams are always available to answer any questions or provide a quote. Fill out our [Quote Request](#) and we will get back to you shortly.