Disc:Max:diameter 202mm*45mm thickness---Min:diameter 1.5mm*0.5mm thickness

Ring:Max:Od202mm*Id182mm*thickness 45mm---Min:Od 3mm*Id1mm*3mm thickness

Block:Max:L200mm*W200mm*T45mm---Min:L0.5mm*W0.5mm*T0.5mm

segment and other irregular shapes can be manufacture according to customer's sample or drawing.

Neodymium Magnet mainly comprised of neodymium ,iron and boron,is the third generation of the rare-earth permanent magnets,Sintered Ndfeb is the strongest permanent magnets in the world up to date,It has excellent properties of high remanence,coercivity,and Max.energy product.

2. Neodymium Magnet Performance

GRADE	(Br)		(bHc)		(iHc)		(BH)max		Tw ℃
	T	KGs	KA/m	KOe	KA/m	KOe	KJ/m3	MGOe	
N35	1.18-1.23	11.8-12.3	≥868	≥10.9	≥955	≥12	263-287	33-36	≤80
N38	1.22-1.28	12.2-12.8	≥899	≥11.3	≥955	≥12	287-310	36-39	≤80
N40	1.26-1.31	12.6-13.1	≥923	≥11.6	≥955	≥12	302-326	38-41	≤80
N42	1.28-1.34	12.8-13.4	≥923	≥11.6	≥955	≥12	318-342	40-43	≤80
N45	1.32-1.37	13.2-13.7	≥876	≥11.0	≥955	≥12	342-366	43-46	≤80
N48	1.36-1.42	13.6-14.2	≥836	≥10.5	≥876	≥11	358-390	45-48	≤80
N50	1.39-1.45	13.9-14.5	≥836	≥10.5	≥876	≥11	374-406	47-51	≤80
N52	1.42-1.48	14.2-14.8	≥796	≥10.0	≥876	≥11	390-422	49-53	≤80
N35M	1.18-1.23	11.8-12.3	≥868	≥10.9	≥1114	≥14	263-287	33-36	≤100
N38M	1.22-1.28	12.2-12.8	≥899	≥11.3	≥1114	≥14	287-310	36-39	≤100
N40M	1.26-1.31	12.6-13.1	≥923	≥11.6	≥1114	≥14	302-326	38-41	≤100
N42M	1.28-1.34	12.8-13.4	≥923	≥11.6	≥1114	≥14	318-342	40-43	≤100
N45M	1.34-1.39	13.4-13.9	≥876	≥11.0	≥1114	≥14	342-366	43-46	≤100
N48M	1.36-1.42	13.6-14.2	≥876	≥11.0	≥1114	≥14	366-390	46-49	≤100
N35H	1.18-1.23	11.8-12.3	≥868	≥10.9	≥1353	≥17	263-287	33-36	≤120
N38H	1.22-1.28	12.2-12.8	≥899	≥11.3	≥1353	≥17	287-310	36-39	≤120
N40H	1.26-1.31	12.6-13.1	≥923	≥11.6	≥1353	≥17	302-326	38-41	≤120
N42H	1.28-1.34	12.8-13.4	≥923	≥11.6	≥1353	≥17	318-342	40-43	≤120

N45H	1.33-1.39	13.3-13.9	≥923	≥11.6	≥1353	≥17	342-366	43-46	≤120
N48H	1.36-1.42	13.6-14.2	≥923	≥11.6	≥1274	≥16	366-390	46-49	≤120
N33SH	1.14-1.19	11.4-11.9	≥836	≥10.5	≥1592	≥20	247-270	31-34	≤150
N35SH	1.18-1.23	11.8-12.3	≥868	≥10.9	≥1592	≥20	263-287	33-36	≤150
N38SH	1.22-1.28	12.2-12.8	≥899	≥11.3	≥1592	≥20	287-310	36-39	≤150
N40SH	1.26-1.31	12.6-13.1	≥923	≥11.6	≥1592	≥20	302-326	38-41	≤150
N42SH	1.28-1.34	12.8-13.4	≥923	≥11.6	≥1592	≥20	318-342	40-43	≤150
N45SH	1.33-1.39	13.3-13.9	≥923	≥11.6	≥1592	≥20	342-366	43-46	≤150
N28UH	1.03-1.09	10.3-10.9	≥780	≥9.80	≥1990	≥25	207-231	26-29	≤180
N30UH	1.09-1.14	10.9-11.4	≥812	≥10.2	≥1990	≥25	223-247	28-31	≤180
N33UH	1.13-1.17	11.3-11.7	≥852	≥10.7	≥1990	≥25	247-263	31-33	≤180
N35UH	1.18-1.22	11.8-12.2	≥868	≥10.9	≥1990	≥25	263-287	33-36	≤180
N38UH	1.22-1.27	12.2-12.7	≥899	≥11.3	≥1990	≥25	287-310	36-39	≤180
N28EH	1.03-1.09	10.3-10.9	≥780	≥9.80	≥2388	≥30	207-231	26-29	≤200
N30EH	1.08-1.13	10.8-11.3	≥812	≥10.2	≥2388	≥30	223-247	28-31	≤200
N33EH	1.13-1.17	11.3-11.7	≥852	≥10.7	≥2388	≥30	247-263	31-33	≤200
N35EH	1.18-1.22	11.8-12.2	≥868	≥10.9	≥2388	≥30	263-287	33-36	≤200
N28AH	1.03-1.09	10.3-10.9	≥780	≥9.80	≥2786	≥35	207-231	26-29	≤220
N30AH	1.08-1.13	10.8-11.3	≥812	≥10.2	≥2786	≥35	223-247	28-31	≤220

Note:The above mentioned data is given at room temperature.

The above-mentioned maximum working temperature of magnet is changeable due to the ratio length and diameter,surface coating and environmental factors.

PHYSICAL PROPERTIES OF SINTERED NdFeB

Temp.Coeff.of Br	-0.09~-0.11%/℃	Specific Heat	0.12Kcal/(kg,℃)
Density	7.4-7.6g/cm^3	Young's Modulus	$1.6x10^{11}N/m^2$
Vickers hardness	600Hv	Poisson's Ratio	0.24
Tensile Strength	8.0Kg/mm^2	Curie Temperature	310~340℃

Temp.Coeff.of Hc	-0.50~-0.60%/℃	Thermal Conductivity	7.7Kcal/(m.h.℃)
Electrical Resistivity	114μΩ.cm	Rigidity	$0.64N/m^2$
Flexural Strength	25Kg/mm	Compressibility	$9.8x10^{-12}m^2/N$
Coeff. Of Thermal Expansion	$4x10^{-6}$/℃	Relative recoil permeabilityμrev	1.05

3. Neodymium magnet Surface Coating

Surface	Coating	Thickness (Microns)	Color	Resistance
Passivation		1	Silver Grey	Temporary Protection
Nickel	Ni+Ni	10--20	Bright Silver	Excellnet Against Humidity
	Ni+Cu+Ni			
Zinc	Zn	8--20	Bright Blue	Good Against Salt Spray
	C-Zn		Shinny Color	Excellnet Against Salt Spary
Tin	Ni+Cu+Sn	15--20	Silver	Superior Against Humidity
Gold	Ni+Cu+Au	10--20	Gold	Superior Against Humidity
Copper	Ni+Cu	10--20	Gold	Temporary Protection
Epoxy	Epoxy	15--25	Black,Red,Grey	Excellent Against Humidity & Salt Spary
	Ni+Cu+Epoxy			
	Zn+Epoxy			
Chemical	Ni	10--20	Silver Grey	Excellent Against Humidity
Parylene	Parylene	5--20	Grey	Excellent Against Humidity,Salt Spray. Superior Against Solvents, Gases, Fungi and Bacteria. FDA Approved.