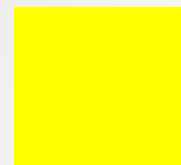
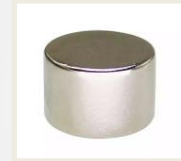




WWW.SINONEO.COM



RARE EARTH NEODYMIUM MAGNETS





ABOUT NEODYMIUM MAGNETS



As a rare earth permanent magnetic material, Nd-Fe-B has high magnetic energy product, coercive force and high energy density with good mechanical property, and it is the strongest permanent magnet in the world, so it has been widely used in modern industry and electronic technology.

We devote ourselves to the research and development of sintered NdFeB magnets since the company's establishment. With the abundant experiences and stable technical craft, we can produce highly precise and intricately shaped sintered NdFeB magnet with different shape such as block, ring, segment and some other shapes required by customers.

In addition, there are different kinds of coatings such as electroplating Zn, NiCuNi, NiSn, phosphate coating, chemical plating coating, electrophoresis epoxy coating can be chosen.

Magnet products with high H_{cj} , high $(BH)_{max}$, low temperature coefficient, low weight loss can be used in different fields such as machinery, video & audio, communication, medical appliance, OA, magnetic separator and so on.

10 Years
Experience

100%
Quality
Guarantee

OEM
Service

Competi
tive
Pricing



GRADE OF NEODYMIUM MAGNETS

N35, N38, N42, N38SH...what does it all mean? Neodymium magnets are all graded by the material they are made of. As a very general rule, the higher the grade (the number following the 'N'), the stronger the magnet.

The highest grade of neodymium magnet currently available is N52. Any letter following the grade refers to the temperature rating of the magnet. If there are no letters following the grade, then the magnet is standard temperature neodymium.

The temperature ratings are standard (no designation) - M - H - SH - UH - EH. You find the temperature rating of each grade on our Specifications of Neodymium Magnets Page.

The grade, or "N rating" of the magnet refers to the Maximum Energy Product of the material that the magnet is made from. It refers to the maximum strength that the material can be magnetized to.

The grade of neodymium magnets is generally measured in units millions of Gauss Oersted (MGOe). A magnet of grade N38 has a Maximum Energy Product of 38 MGOe. Generally speaking, the higher the grade, the stronger the magnet.



10 Years
Experiiece

100%
Quality
Guarantee

OEM
Service

Competi
tive
Pricing



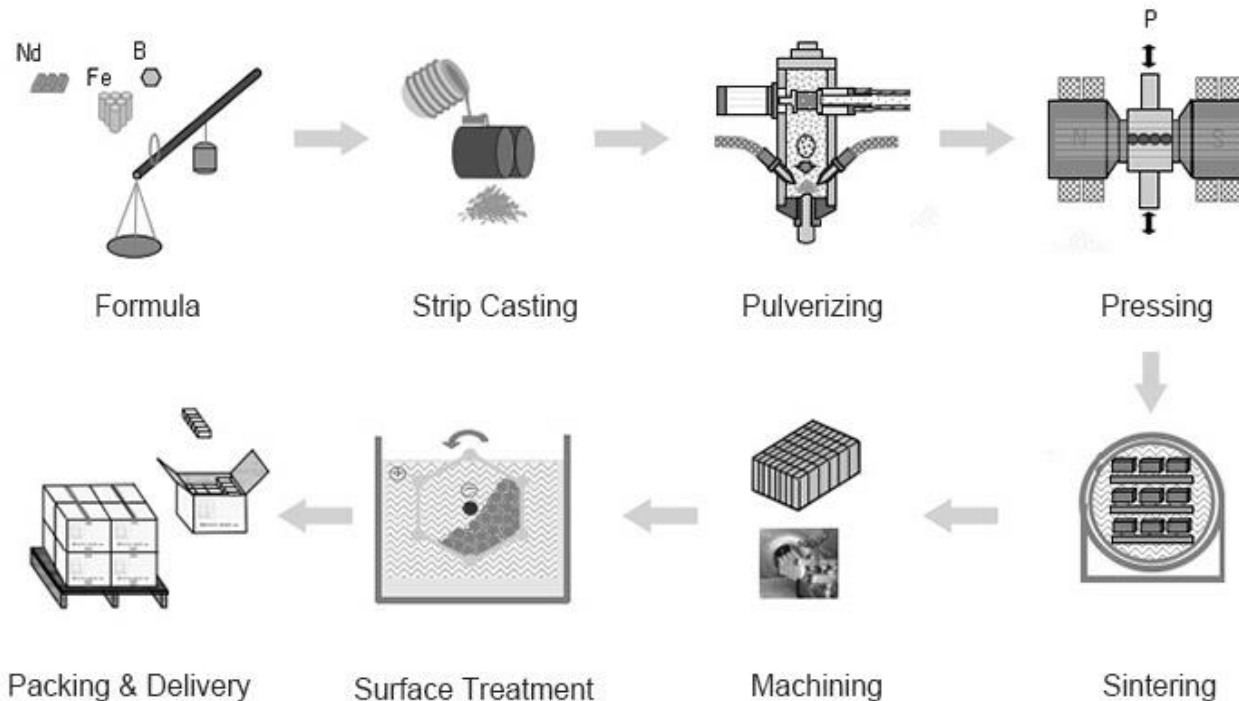
MAKING PROCESS OF NEODYMIUM MAGNETS



NdFeB magnet use Powder Metallurgy Process, proportion of material such as: neodymium, dysprosium, iron, cobalt, niobium, praseodymium, aluminum, iron, and boron etc., through Mid-frequency Induction Furnace smelting to alloy steel

ingot, then broken into power of 3~5um, and forming mold in magnetic field, the green bodies sintering dense and tempering in Vacuum Sintering Furnace, that can earn magnetic properties of blank of permanent magnet.

After grinding, drilling, cutting and other processing, last via surface finish, it is good NdFeB magnet.





APPLICATION OF NEODYMIUM MAGNETS



automotive motors



aviation



compressors



wind power generation



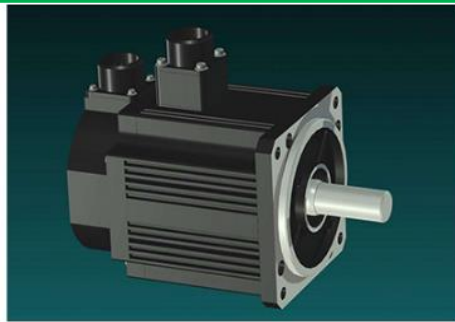
all kinds of electronic products



APPLICATION OF NEODYMIUM MAGNETS



Elevator motor



servo motor



Vehicles



Decoration



household appliances



medical devices



Communication Equipment



Audio/Video



Magnetic bar



medical devices



medical devices and IT



MAGNETIC PROPERTIES



Grade	Remanence		Magnetic Inductio		Intrinsic Coercivity		Max Magnetic Energy Product				Maximum Working Temperatures	
	Br (KG)	Br (T)	Hcb (KOe)	Hcb (KA/m)	Hcj (KOe)	Hcj (KA/m)	(BH)max(MGOe)		(BH)max(KJ/m³)		°C	
							Max	Min	Max	Min		
N35	≥11.8	≥1.18	≥10.8	≥860	≥12	≥960	37	33	295	263	N	≤80
N38	≥12.3	≥1.23	≥10.8	≥860	≥12	≥960	39	36	310	287		
N40	≥12.7	≥1.27	≥11.0	≥876	≥12	≥960	41	38	327	302		
N42	≥13.0	≥1.30	≥11.0	≥876	≥12	≥960	43	40	343	320		
N45	≥13.3	≥1.33	≥11.0	≥876	≥12	≥960	46	42	366	335		
N48	≥13.7	≥1.37	≥10.5	≥836	≥12	≥960	49	45	390	358		
N50	≥14.0	≥1.40	≥10.5	≥836	≥12	≥960	51	47	406	374		
N52	≥14.2	≥1.42	≥10.5	≥836	≥12	≥960	53	49	422	390		
N54	≥14.4	≥1.44	≥10.5	≥836	≥11	≥876	55	51	438	406		
N35M	≥11.8	≥1.18	≥10.8	≥860	≥14	≥1114	37	33	295	263	M	≤100
N38M	≥12.3	≥1.23	≥11.0	≥876	≥14	≥1114	39	36	310	287		
N40M	≥12.7	≥1.27	≥11.5	≥915	≥14	≥1114	41	38	327	302		
N42M	≥13.0	≥1.30	≥11.8	≥939	≥14	≥1114	43	40	343	320		
N45M	≥13.3	≥1.33	≥12.0	≥956	≥14	≥1114	46	42	366	335		
N48M	≥13.7	≥1.37	≥12.2	≥972	≥14	≥1114	49	45	390	358		
N50M	≥14.0	≥1.40	≥12.5	≥995	≥14	≥1114	51	47	406	374		
N52M	≥14.2	≥1.42	≥12.5	≥995	≥14	≥1114	53	49	422	390		
N33H	≥11.4	≥1.14	≥10.6	≥844	≥17	≥1350	35	31	279	247		
N35H	≥11.8	≥1.18	≥10.8	≥860	≥17	≥1350	37	33	295	263		
N38H	≥12.3	≥1.23	≥11.0	≥876	≥17	≥1350	39	36	310	287		
N40H	≥12.7	≥1.27	≥11.5	≥916	≥17	≥1350	41	38	327	302		
N42H	≥13.0	≥1.30	≥11.8	≥940	≥17	≥1350	43	40	343	320		
N45H	≥13.3	≥1.33	≥12.0	≥955	≥17	≥1350	46	42	366	335		
N48H	≥13.6	≥1.36	≥12.2	≥971	≥17	≥1350	49	45	390	358		
N50H	≥14	≥1.4	≥12.5	≥995	≥17	≥1350	51	47	406	374		
N52H	≥14.3	≥1.43	≥12.5	≥995	≥17	≥1350	53	49	422	390		

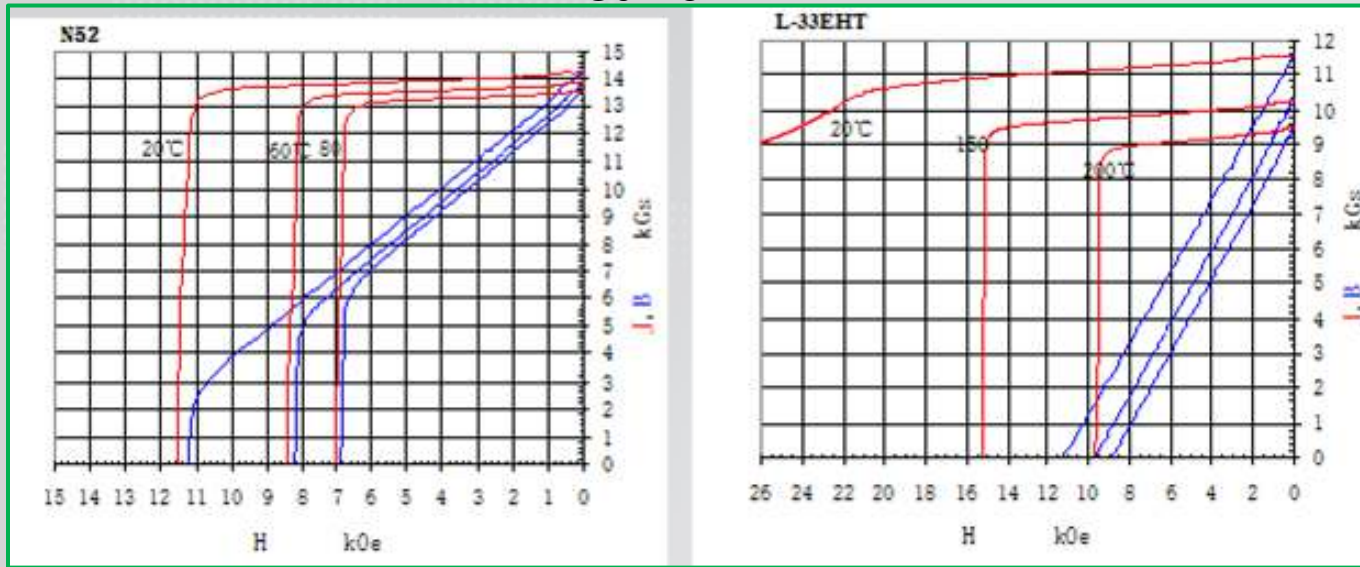


MAGNETIC PROPERTIES



N33SH	≥11.4	≥1.14	≥10.6	≥844	≥20	≥1592	35	31	279	247	SH	≤150
N35SH	≥11.8	≥1.18	≥10.8	≥860	≥20	≥1592	37	33	295	263		
N38SH	≥12.3	≥1.23	≥11.0	≥876	≥20	≥1592	39	36	310	287		
N40SH	≥12.6	≥1.26	≥11.5	≥916	≥20	≥1592	41	38	327	302		
N42SH	≥12.9	≥1.29	≥11.8	≥940	≥20	≥1592	43	40	343	320		
N45SH	≥13.2	≥1.32	≥12.0	≥955	≥20	≥1592	46	42	366	335		
N48SH	≥13.6	≥1.36	≥12.2	≥971	≥20	≥1592	49	45	390	358		
N50SH	≥14	≥1.4	≥12.5	≥995	≥20	≥1592	51	47	406	374		
N33UH	≥11.4	≥1.14	≥10.6	≥844	≥25	≥1990	35	31	279	247	UH	≤180
N35UH	≥11.8	≥1.18	≥10.8	≥860	≥25	≥1990	37	33	295	263		
N38UH	≥12.3	≥1.23	≥11.0	≥876	≥25	≥1990	39	36	310	287		
N40UH	≥12.6	≥1.26	≥11.5	≥916	≥25	≥1990	41	38	327	302		
N42UH	≥12.9	≥1.29	≥11.8	≥940	≥25	≥1990	43	40	343	320		
N45UH	≥13.2	≥1.32	≥12.0	≥955	≥25	≥1990	46	42	366	335		
N48UH	≥13.6	≥1.36	≥12.2	≥971	≥25	≥1990	49	45	390	358		
N28EH	≥10.4	≥1.04	≥9.50	≥756	≥30	≥2388	30	26	239	207		
N30EH	≥10.8	≥1.08	≥9.50	≥756	≥30	≥2388	32	28	255	223		
N33EH	≥11.4	≥1.14	≥10.6	≥844	≥30	≥2388	35	31	279	247		
N35EH	≥11.8	≥1.18	≥10.8	≥860	≥30	≥2388	37	33	295	263		
N38EH	≥12.3	≥1.23	≥11.0	≥876	≥30	≥2388	39	36	310	287		
N40EH	≥12.6	≥1.26	≥11.5	≥916	≥30	≥2388	41	38	327	302		
N42EH	≥12.9	≥1.29	≥11.8	≥940	≥30	≥2388	43	41	343	320		
N45EH	≥13.2	≥1.32	≥12.0	≥955	≥30	≥2388	46	42	366	335		
N30TH	≥10.8	≥1.08	≥9.50	≥756	≥35	≥2786	32	28	255	223	TH	≤220
N33TH	≥11.4	≥1.14	≥10.6	≥844	≥35	≥2786	35	31	279	247		
N35TH	≥11.8	≥1.18	≥11.0	≥876	≥35	≥2786	37	33	295	263		
N38TH	≥12.2	≥1.22	≥11.0	≥876	≥33	≥2627	39	36	310	287		





BH Curve



Temp.Coeff.of Br	-0.11%/ °C	Temp.Coeff.of Hc	-0.60%/ °C
Density	7.3-7.5g/cm ³	Electrical Resistivity	114 .cm
Vickers Hardness	600Hv	Flexural Resistivity	25kg/mm
Tensile Strength	8.0Kg/mm ²	Coeff. Of Thermal Expansion	4X10 ⁻⁶ / °C
Specific Heat	0.12Kcal/Kg	Thermal Conductivity	7.7kcal/[m.h. °C
Young's Modulus	1.6X10 ¹¹ N/m ²	Rigidity	0.64N/m ²
Poisson's Ratio	0.24	Compressibility	9.8x10 ⁻¹² m ² /N
Curie Temperature	310-340 °C		

SIZE OF NEODYMIUM MAGNETS



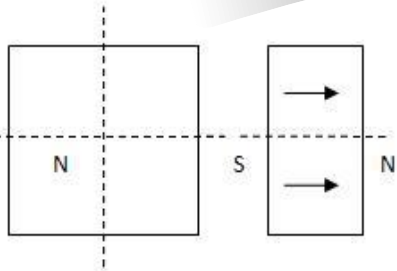
Size		Outer Diameter/Length	Inner diameter/Width	Thickness
	Maximum	150mm		50.00mm
	Minimum	1mm		0.50mm
	Maximum	100mm	100mm	50.00mm
	Minimum	0.5mm	0.50mm	0.50mm
	Maximum	150mm	140mm	50.00mm
	Minimum	1.00mm	0.60mm	0.50mm
	Segment, Arc and other irregular shapes can be made according to customer's samples or drawing.			

SURFACE TREATMENT

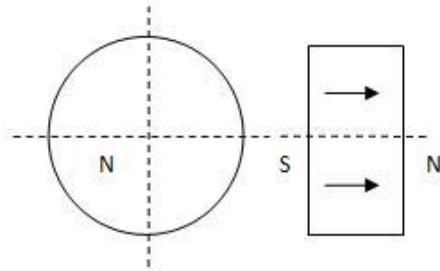


Coating		Code	Color	Minimum Local Thickness	Memрге etching time			Working temperature
					Neutralsalt Spray test	Humid heat test	Pressure Vessel test	
Ni(Barrel plating)		Ni	Sliver	10	24	300	48	<200
Ni(rack plating)		Ni	Sliver	10	8	300	48	
NiCuNi(barrel plating)		NiCuNi	Sliver	10	72	500	48	
NiCuNi(rack plating)		NiCuNi	Sliver	10	48	500	48	
Zinc	White zinc	Zn	White Zinc	4	24	48	/	<170
	Color zinc	CZn/Zn	Color Zinc	6	48	48	/	
Chemical plating Ni		Ni	Silver	12	96	500	48	<200
Electrophoresis epoxy		Epoxy	Black,grey	10	48-96	120	0-24	<130
Parylene		Parylene	Colorless and transparent	12.7-25.4 microns Meet the MIL-I-46058C standard	48	/	/	<130

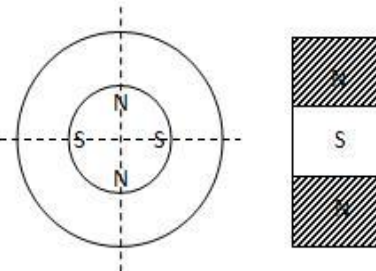
MAGNETIZATION MODE



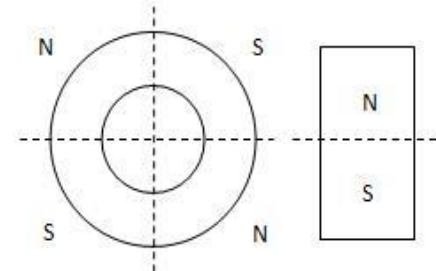
Magnetized through the thickness



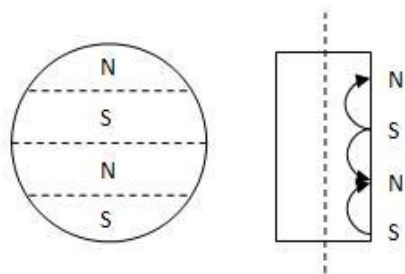
Axially Magnetized



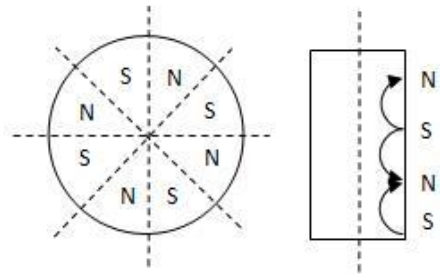
Multi-poles on inner diameter



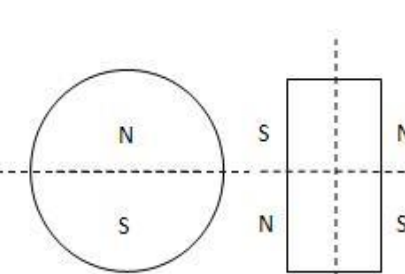
Multi-poles on outer diameter



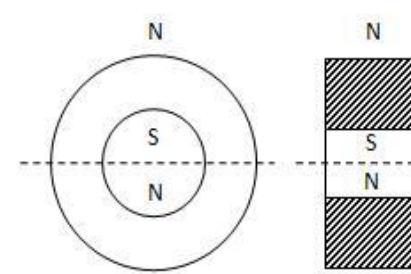
Multi-poles on one side



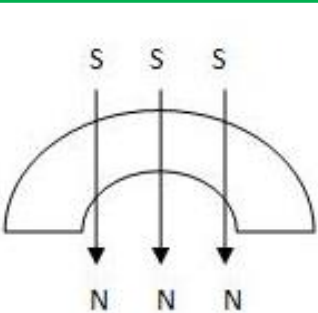
Multi-poles on one side



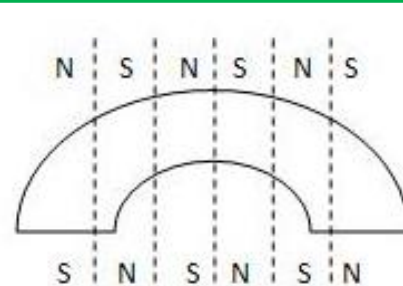
Axially Magnetized with two poles



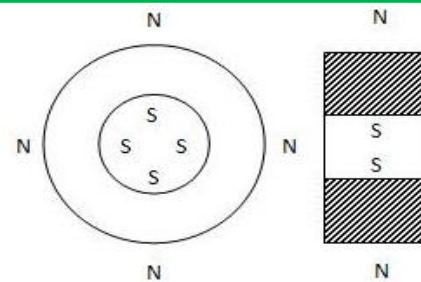
Diametrically Magnetized



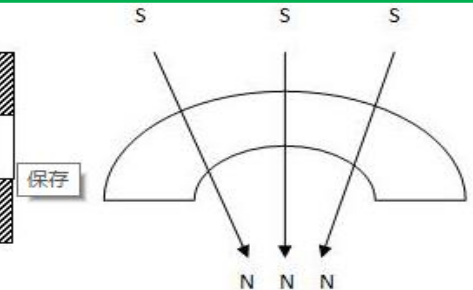
Radially Magnetized



Radially Magnetized



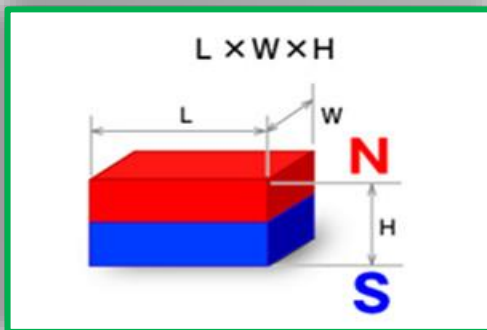
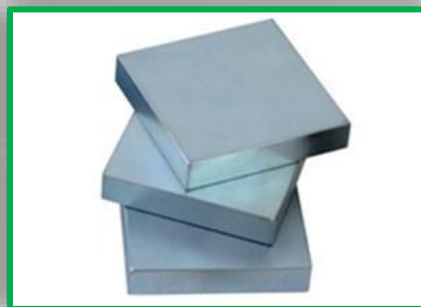
Diametrically Magnetized



Diametrically Magnetized with Multi poles

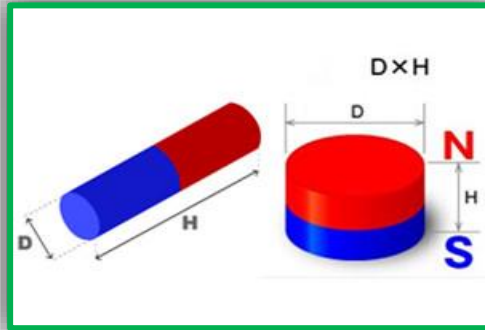


PRODUCT PHOTOS(BLOCK SHAPE)



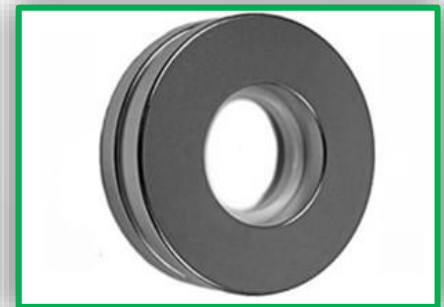
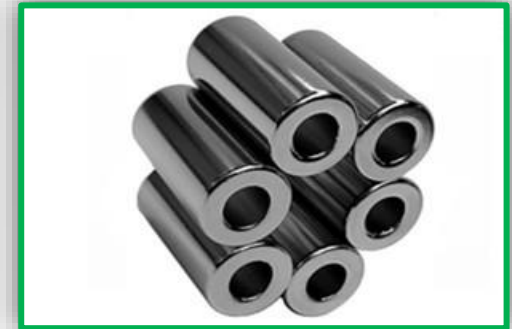
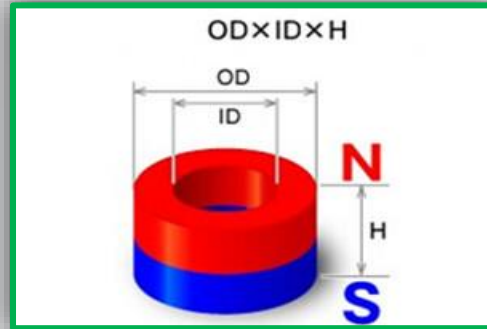
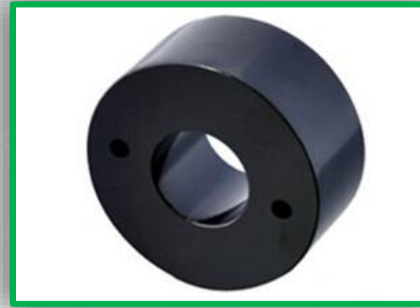


PRODUCT PHOTOS(DISC SHAPE)



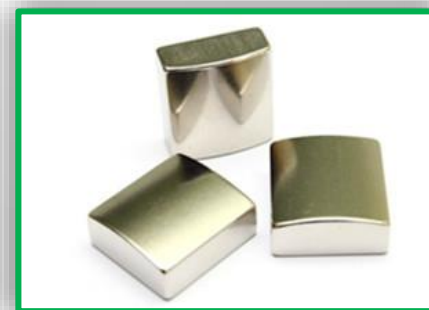
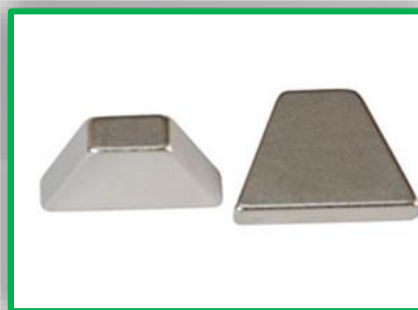
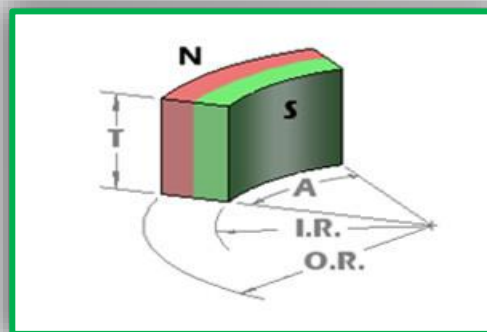
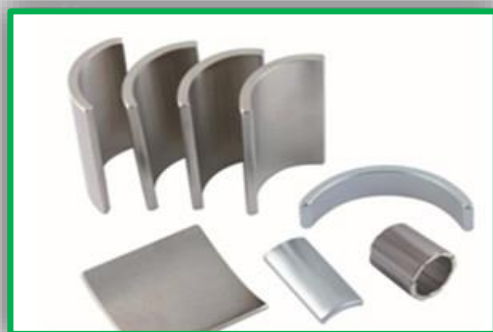


PRODUCT PHOTOS(RING SHAPE)



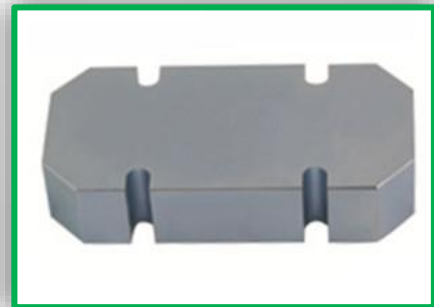


PRODUCT PHOTOS (ARC SHAPE)





PRODUCT PHOTOS(OTHER SHAPE)





Packing of our products:

1. Sea shipment : strong cartons and then packed in strong wooden cases.
2. Air shipment: well shielded cartons for magnetism inspection.

Our Shipping ways:

1. Express courier, TNT, Fedex, DHL,UPS for your choice.
(1),Ship door to door. You can provide your express account for the freight payable at destination.(2),Delivery time: 3-7 days
2. Air cargo , shipping to your nearest airport.
(1),If you choose this way, please provide us your nearest airport. (2),Delivery 5-15days. (3), Suitable for cargo over 45 kg
3. Sea cargo, shipping to your nearest port.
(1),If you choose this way, please provide us your nearest port and zip code. (2),Delivery approximately 30 days.
(3),This type of shipping is suitable for cargo over 200KGS, or have big volume.

OEM are welcomed, samples is available, small orders accepted.

1 100% Quality & Best Service Guarantee

3 Quick Delivery Time

2 Experienced Staff

4 Competitive Price



To offer you our magnets price, please offer the following details:

1, Magnets grade: From N35 To N50, from N Series to UH Series.

2, Magnets size: As the drawing

3, Magnetism direction: Which direction to oriented The north pole and south pole

4, Magnets coating: Nickel, Zn, Black Epoxy, AG, Au etc.

5, Quantities: More mass order quantities. More Lower the prices. Original factory.

Let Us Assist You!

Our magnet experts will help you get exactly what you need - custom or stock - in record time with great quality at a very competitive price.



CONTACT US



SCAN TO VISIT OUR WEBSITE

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FACTORY:CICHENG INDUSTRIAL ZONE,NINGBO,CHINA(315000)

PHONE: +0086-159 0650 8736 0086-574-8266 2106

WEBSITE:WWW.SINONEO.COM

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