



Dongguan Courage Magnetolectric Technology Co., Ltd

Professional magnet manufacturer integrating production, sales and R&D

Be excellent, strong and professional

Catalogue

- | | |
|-------------------------------------|---|
| 1 Company Profile | 7 Injection Molding Ferrite Magnet |
| 2 Production Equipment | 8 SmCo Magnet |
| 3 Inspection Equipment | 9 Alnico Magne |
| 4 Sintered Neodymiumu Magnet | 10 Magnetizing Direction |
| 5 Bonded Neodymium Magnet | 11 Contact |
| 6 Permanent Ferrite Magnet | |

COMPANY PROFILE



Dongguan courage magnetolectric Technology Co., Ltd. is a magnet manufacturer specializing in the research and development, production and sales of magnets. We mainly engaged in rare earth neodymium iron boron strong magnets, permanent ferrite magnets, motor multipolar magnetic rings. Our factory was established in 2009, located in Dongguan City, Guangdong Province, covering an area of 1500 square meters. We have multiple magnet slicing machines, grinders, punching machines, magnetizers, and complete testing equipment for magnets.

Our magnet products mainly win with high performance and high precision, and are widely used in many industries and fields such as motors, sensors, electrical appliances, automobiles, communication equipment, frequency conversion home appliances, medical equipment, power tools, computer phones, smart homes and so on.

To be excellent, strong, and professional has always been our business philosophy. Our company firmly does not produce fake and inferior low-end products. We strives to achieve scale, institutionalization, and specialization, producing excellent magnet products, and strives to be an excellent enterprise in the industry. Warmly welcome to call or field visit our company to discuss the cooperation.

PRODUCTION EQUIPMENT

PRODUCTION EQUIPMENT



Ultrasonic Drilling



**Concave and Convex Magnet
Processing Equipment**



Multi-Line Slicer



Grinding Machine



**Special Inner Hole
Processing Machine**



Automatic Slicer

INSPECTION EQUIPMENT

INSPECTION EQUIPMENT



Fluxmeter



High Temperature Oven



Caliper



Micrometer



Japanese Gauss Meter



Projector

SINTERED NEODYMIUM MAGNET

Product Description



Counter Bore



Block



Special Shape



Cylinder

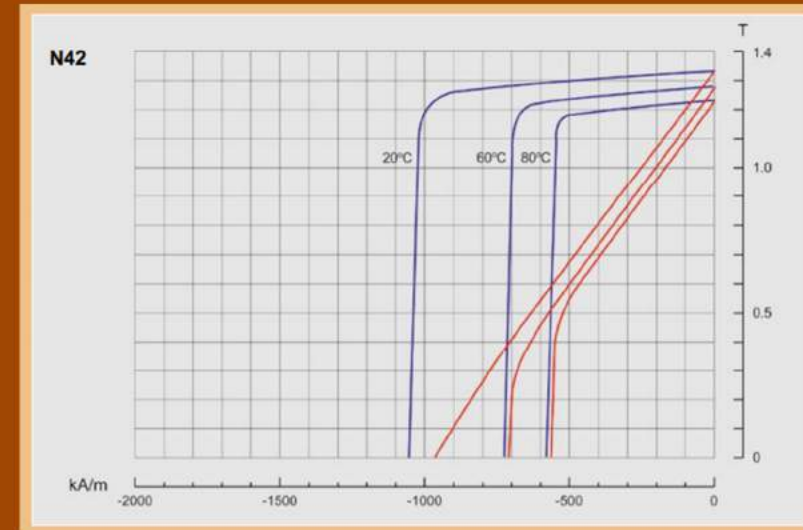
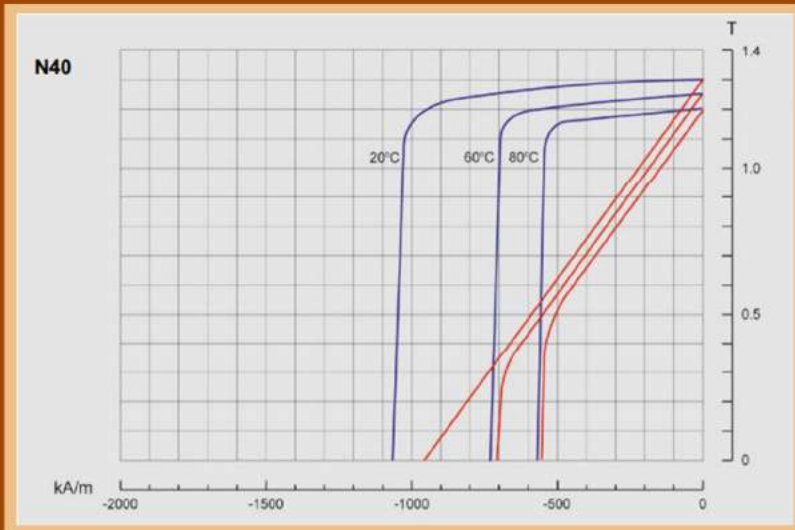
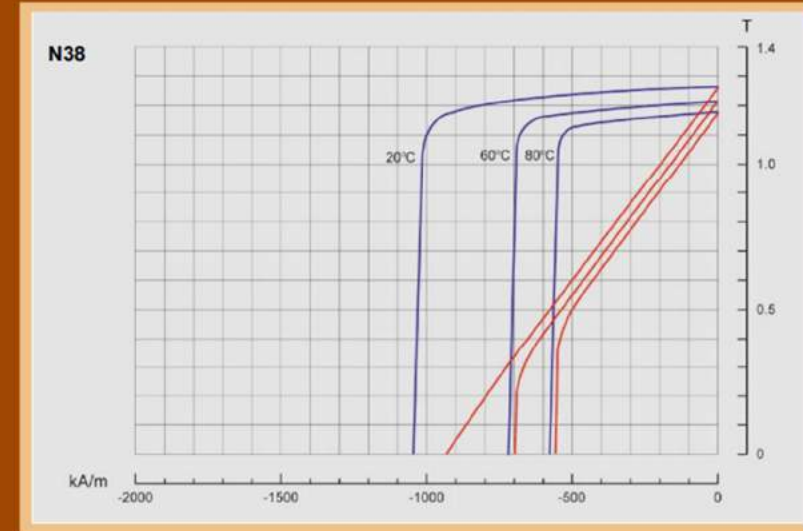
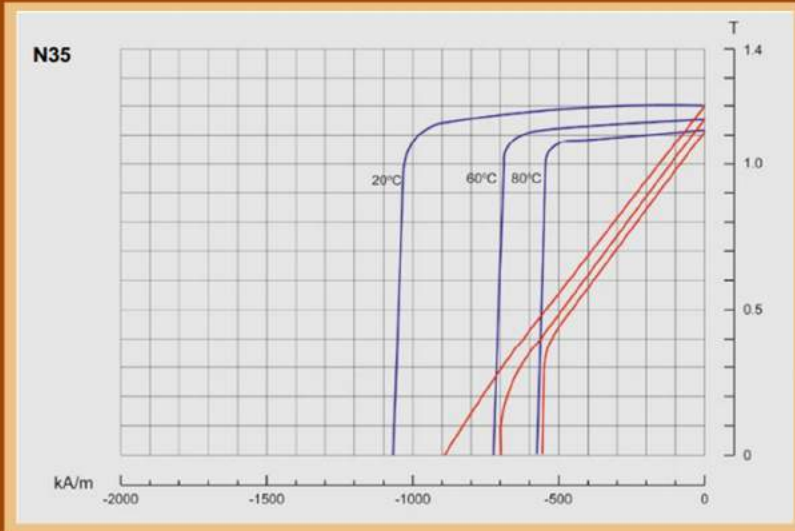
Neodymium iron boron, also called neodymium magnet, rare earth magnet, powerful magnet. It is a tetragonal crystal formed by neodymium, iron, boron ($\text{Nd}_2\text{Fe}_{14}\text{B}$) and the strongest magnetic material currently. The main material grades are N35–N52 and Temperature-resistant materials. Because the corrosion resistance is not good, the surface is usually coated, such as use nickel, zinc, gold, tin for electroplating, and epoxy resin spraying. They are mainly used in electronics, Electrical appliances, motors, sensors, smart home, robots, hardware machinery, medical equipment and other fields.



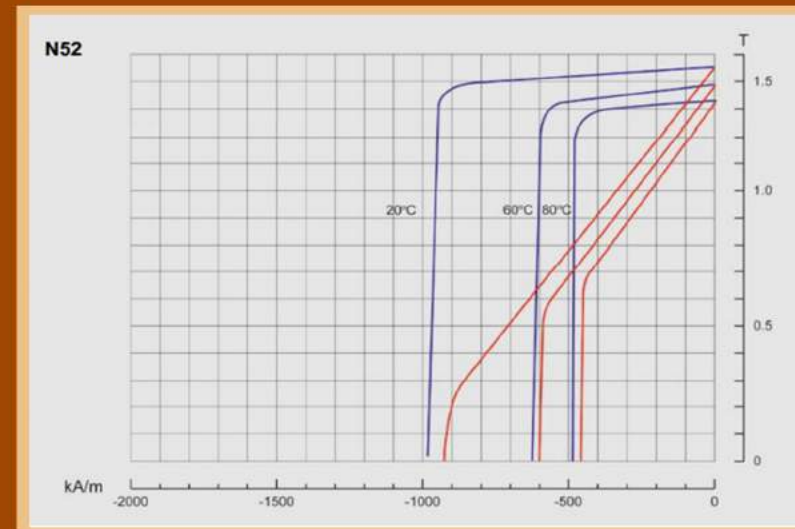
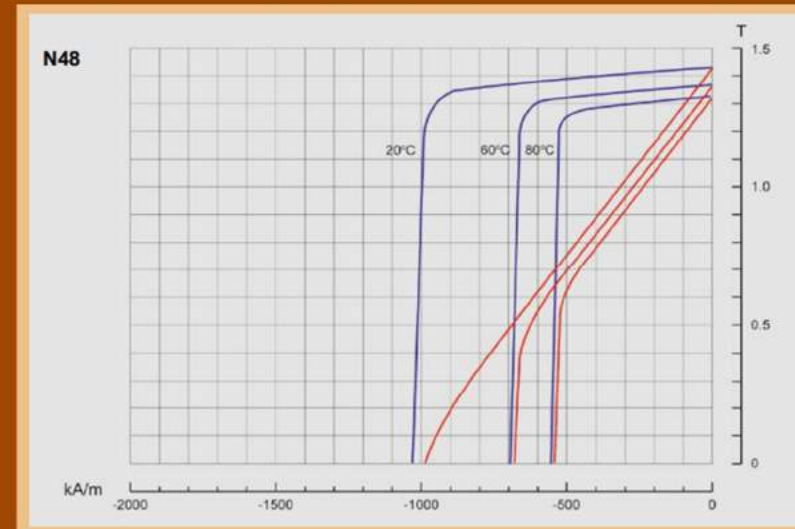
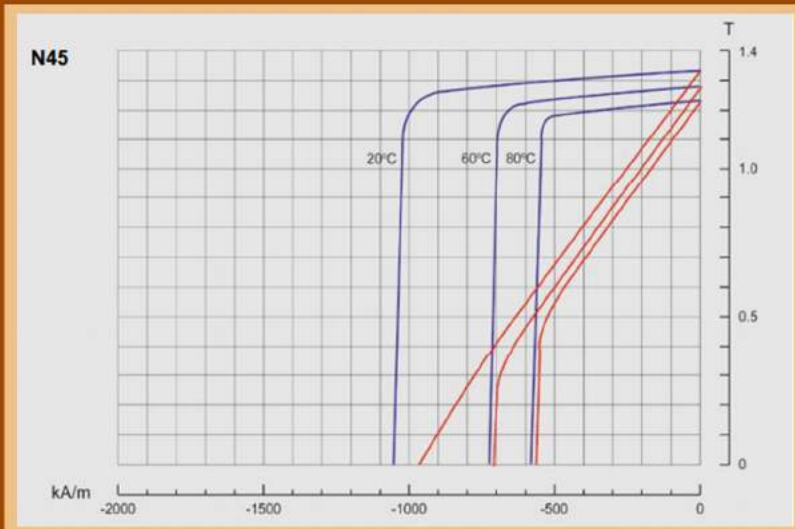
Process Flow



Demagnetizing Curve of Sintered NdFeB



Demagnetizing Curve of Sintered NdFeB



Physical Properties of Sintered NdFeB

Physical properties of sintered NdFeB

Parameter	Unit	Standard Data
Curie Temperature	℃	310-380
Maximum Operating Temperature	℃	80-200
Hardness	Hv	620
Electrical Resistivity	W cm	1.8x10-2.0x10
Density	g/cm	7.3-7.7
Recoil Permeability	Urec	1.05
Magnetization Field Strength	Koe	≥30
Bending Strength	Mpa	295-345
Temp.Coefficient of Br	%/° C	-0.11~-0.12
Temp.Coefficient of Hcj	Mpa	-0.42~-0.7

Performance Parameters of Sintered NdFeB

Grade	Residual Induction Br(min)		Coercive Force Hcb(min)		Intrinsic Coercive Force Hcj(min)		Maximum Energie Product (BH)max		Max Working Temp(°C)
	mT	KGs	KA/m	Koe	KA/m	Koe	KJ/m ³	MGOe	Tw
N35	1170-1220	11.7-12.2	≥868	≥10.9	≥955	≥12.0	263-287	33-36	80
N38	1220-1250	12.2-12.5	≥899	≥11.3	≥955	≥12.0	287-310	36-39	80
N40	1250-1280	12.5-12.8	≥907	≥11.4	≥955	≥12.0	302-326	38-41	80
N42	1280-1320	12.8-13.2	≥915	≥11.5	≥955	≥12.0	318-342	40-43	80
N45	1320-1380	13.2-13.8	≥923	≥11.6	≥955	≥12.0	342-366	43-46	80
N48	1380-1420	13.8-14.2	≥923	≥11.6	≥955	≥12.0	366-390	46-49	80
N50	1400-1450	14.0-14.5	≥796	≥10.0	≥876	≥11.0	382-406	48-51	80
N52	1430-1480	14.3-14.8	≥796	≥10.0	≥876	≥11.0	398-422	50-53	80
N33M	1130-1170	11.3-11.7	≥836	≥10.5	≥1114	≥14	247-263	31-33	100
N35M	1170-1220	11.7-12.2	≥868	≥10.9	≥1114	≥14	263-287	33-36	100
N38M	1220-1250	12.2-12.5	≥899	≥11.3	≥1114	≥14	287-310	36-39	100
N40M	1250-1280	12.5-12.8	≥923	≥11.6	≥1114	≥14	302-326	38-41	100
N42M	1280-1320	12.8-13.2	≥955	≥12.0	≥1114	≥14	318-342	40-43	100
N45M	1320-1380	13.2-13.8	≥995	≥12.5	≥1114	≥14	342-366	43-46	100
N48M	1360-1430	13.6-14.3	≥1027	≥12.9	≥1114	≥14	366-390	46-49	100

Performance Parameters of Sintered NdFeB

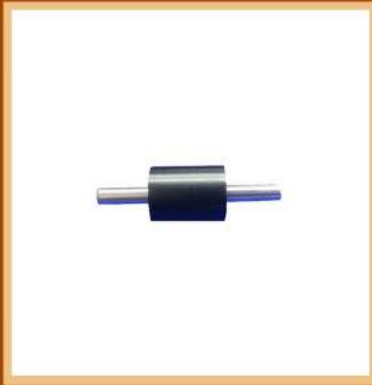
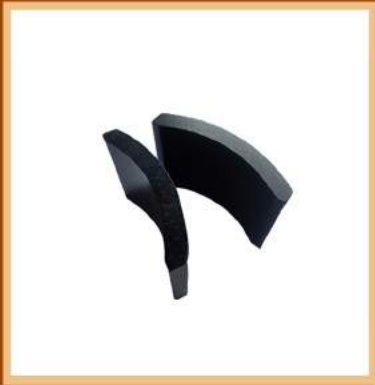
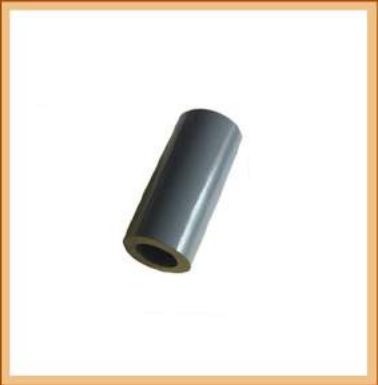
N50M	1400-1450	14.0-14.5	≥1033	≥13.0	≥1114	≥14	382-406	48-51	100
N35H	1170-1220	11.7-12.2	≥868	≥10.9	≥1353	≥17	263-287	33-36	120
N38H	1220-1250	12.2-12.5	≥899	≥11.3	≥1353	≥17	287-310	36-39	120
N40H	1250-1280	12.5-12.8	≥923	≥11.6	≥1353	≥17	302-326	38-41	120
N42H	1280-1320	12.8-13.2	≥955	≥12.0	≥1353	≥17	318-342	40-43	120
N45H	1320-1360	13.2-13.6	≥963	≥12.1	≥1353	≥17	326-358	43-46	120
N48H	1360-1430	13.6-14.3	≥995	≥12.5	≥1353	≥17	366-390	46-49	120
N35SH	1170-1220	11.7-12.2	≥876	≥11.0	≥1592	≥20	263-287	33-36	150
N38SH	1220-1250	12.2-12.5	≥907	≥11.4	≥1592	≥20	287-310	36-39	150
N40SH	1250-1280	12.5-12.8	≥939	≥11.8	≥1592	≥20	302-326	38-41	150
N42SH	1280-1320	12.8-13.2	≥987	≥12.4	≥1592	≥20	318-342	40-43	150
N45SH	1320-1380	13.2-13.8	≥1003	≥12.6	≥1592	≥20	342-366	43-46	150
N28UH	1020-1080	10.2-10.8	≥764	≥9.6	≥1990	≥25	207-231	26-29	180
N30UH	1080-1130	10.8-11.3	≥812	≥10.2	≥1990	≥25	223-247	28-31	180
N33UH	1130-1170	11.3-11.7	≥852	≥10.7	≥1990	≥25	247-271	31-34	180
N35UH	1180-1220	11.8-12.2	≥860	≥10.8	≥1990	≥25	263-287	33-36	180
N38UH	1220-1250	12.2-12.5	≥876	≥11.0	≥1990	≥25	287-310	36-39	180
N40UH	1250-1280	12.5-12.8	≥899	≥11.3	≥1990	≥25	302-326	38-41	180
N28EH	1040-1090	10.4-10.9	≥780	≥9.8	≥2388	≥30	207-231	26-29	200
N30EH	1080-1130	10.8-11.3	≥812	≥10.2	≥2388	≥30	223-247	28-31	200
N33EH	1130-1170	11.3-11.7	≥836	≥10.5	≥2388	≥30	247-271	31-34	200
N35EH	1170-1220	11.7-12.2	≥876	≥11.0	≥2388	≥30	263-287	33-36	200
N38EH	1220-1250	12.2-12.5	≥899	≥11.3	≥2388	≥30	287-310	36-39	200
N28AH	1040-1090	10.4-10.9	≥787	≥9.9	≥2785	≥35	207-231	26-29	230
N30AH	1080-1130	10.8-11.3	≥819	≥10.3	≥2785	≥35	223-247	28-31	230
N33AH	1130-1170	11.3-11.7	≥843	≥10.6	≥2785	≥35	247-271	31-34	230

Application



BONDED NEODYMIUM MAGNET

Production Discription



Bonded NdFeB magnets are mainly manufactured by mixing NdFeB powder and adhesives (epoxy resin, nylon, polyphenylene sulfide, etc.) through pressing, injection molding and extrusion molding. The surface treatment is usually epoxy. There are black, gray, blue and so on. Operating temperature range: $-40-160^{\circ}\text{C}$, It has the characteristics of extremely high dimensional accuracy, one-time molding, good magnetic uniformity, multipolar orientation, and strong corrosion resistance. It is widely used in spindle motors, micro motors, brushless DC motors, Synchronous motors, power tools, automation equipment and other fields.



Process Flow

Charge Mixture



Co-firing



Granularity Adjustment



Forming



Packaging



Electrophoresis



Processing

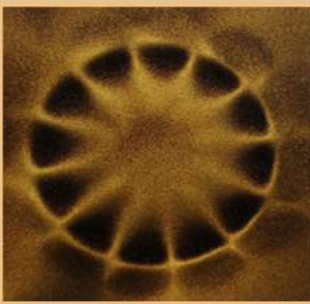
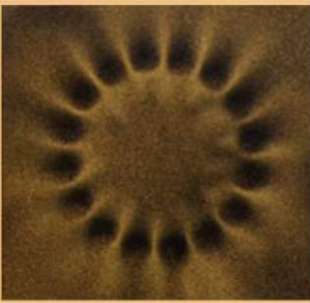
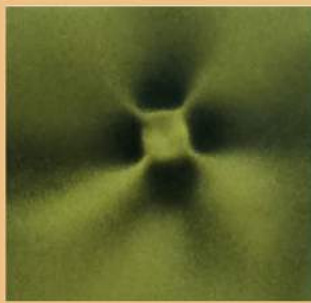
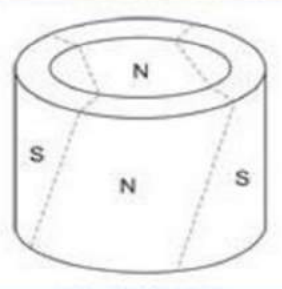
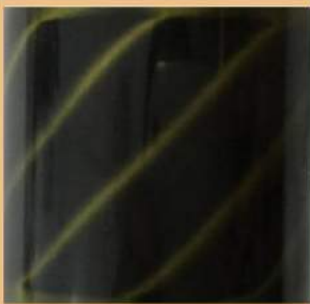
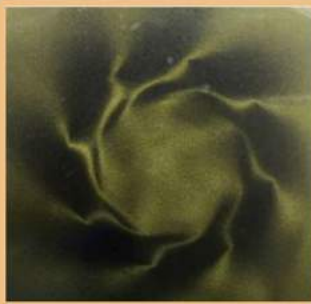


Curing

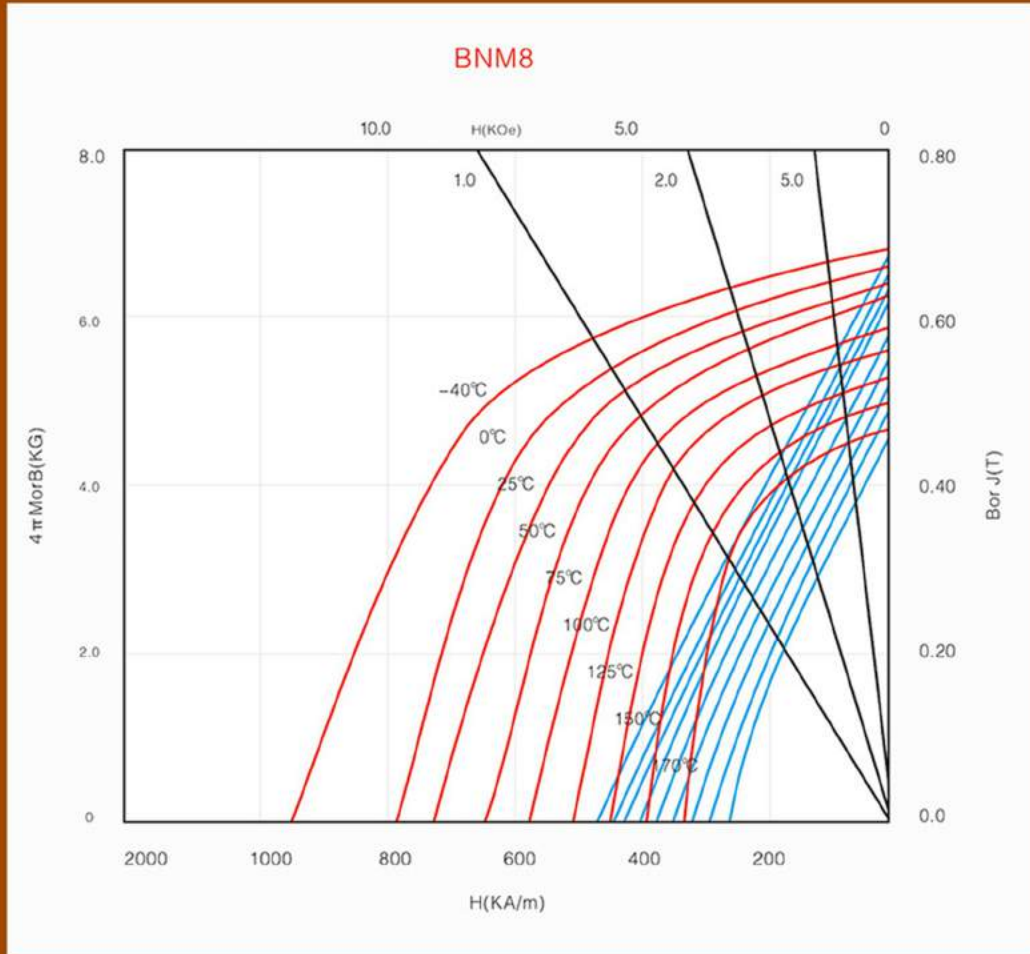
Physical Properties of Bonded NdFeB

Density	g/cm ³	4.0-6.5
Curie Temperature	°C	300-350
Recoil Permeability	μ_{rec}	1.2
Temperature Coefficient	%/°C	-0.17
Hardness	Hv	80-120
Resistivity	$\Omega \cdot \text{cm}$	0.026
Compressive Strength	Kgf/mm ²	3
Flexural Strength	Kg/mm	25
Thermal Expansivity	10 ⁻⁶ /°C	1-2

Magnetic Pole Display

Radial Inner Ring Multipole Magnetization	 A schematic diagram of a circular magnet with radial inner ring multipole magnetization. It shows a central circle with eight radial lines extending to the outer edge. The poles are labeled: N (North) at the top and bottom, and S (South) at the left and right. Arrows indicate the magnetic field lines flowing radially from the center towards the outer edge.	 A micrograph showing the magnetic field distribution for radial inner ring multipole magnetization. It displays a circular pattern with eight distinct, bright, radial lines emanating from the center, representing the magnetic field lines.	 A micrograph showing the magnetic field distribution for radial inner ring multipole magnetization. It displays a circular pattern with eight distinct, bright, radial lines emanating from the center, representing the magnetic field lines.
Radial Outer Ring Multipole Magnetization	 A schematic diagram of a circular magnet with radial outer ring multipole magnetization. It shows a central circle with eight radial lines extending to the outer edge. The poles are labeled: N (North) at the top and bottom, and S (South) at the left and right. Arrows indicate the magnetic field lines flowing radially from the outer edge towards the center.	 A micrograph showing the magnetic field distribution for radial outer ring multipole magnetization. It displays a circular pattern with eight distinct, bright, radial lines emanating from the center, representing the magnetic field lines.	 A micrograph showing the magnetic field distribution for radial outer ring multipole magnetization. It displays a circular pattern with eight distinct, bright, radial lines emanating from the center, representing the magnetic field lines.
Radial Oblique Angle Magnetization	 A schematic diagram of a cylindrical magnet with radial oblique angle magnetization. The top face is labeled N (North) and the bottom face is labeled S (South). The side face is labeled N (North) and S (South). Arrows indicate the magnetic field lines flowing radially from the center towards the outer edge.	 A micrograph showing the magnetic field distribution for radial oblique angle magnetization. It displays a circular pattern with eight distinct, bright, radial lines emanating from the center, representing the magnetic field lines.	 A micrograph showing the magnetic field distribution for radial oblique angle magnetization. It displays a circular pattern with eight distinct, bright, radial lines emanating from the center, representing the magnetic field lines.

Demagnetizing Curve of Bonded NdFeB



FERRITE MAGNET

Product Description



Rectangle Magnet



Ring Magnet



Radial Multipole
Magnet Ring



Arc Magnet

Ferrite magnets are also called General magnets, which are permanent magnets made mainly of SrO or BaO and Fe_2O_3 . The main raw material is oxide, so it is not corroded by the environment or chemical substances (except strong acid). , So the surface does not need electroplating treatment. It can be processed into round, ring, square, cylindrical, tile, irregular shapes and so on. It has the advantages of low price, not easy to demagnetize, and not easy to corrode. It is mainly used in motors, electrical appliances, packaging, toys, smart homes, and medical equipment, health care massage equipment and other fields.



Process Flow

Weighing of Raw Materials



Mixing



Ball Milling



Pre-sintering



**(Dry Pressing/Wet Pressing
Magnetic Field Molding) Sintering**



Fine Crushing



Coarse Crushing



Processing



Magnetizing



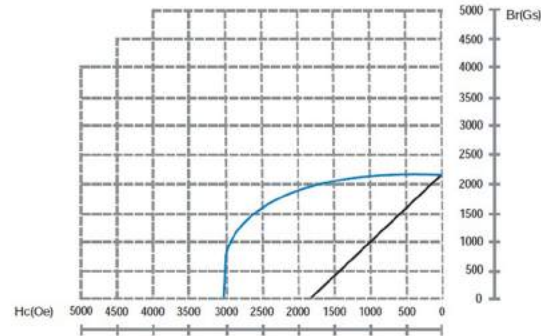
Inspection



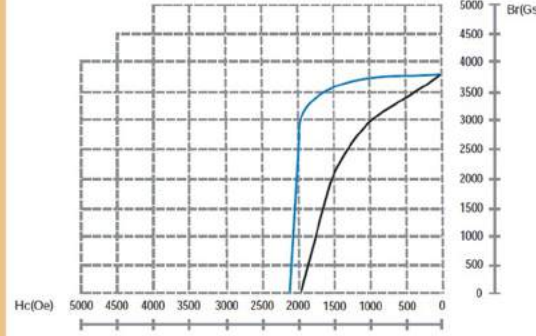
Packaging

Demagnetizing Curve of Ferrite Magnet

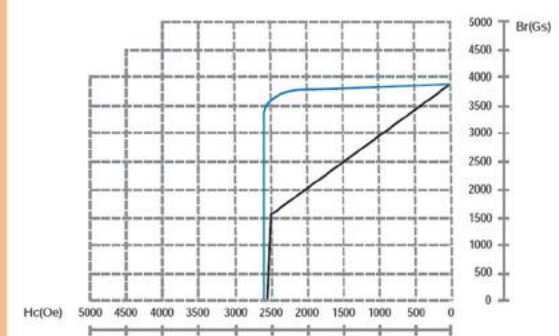
Y10 Isotropic Ferrite Magnet



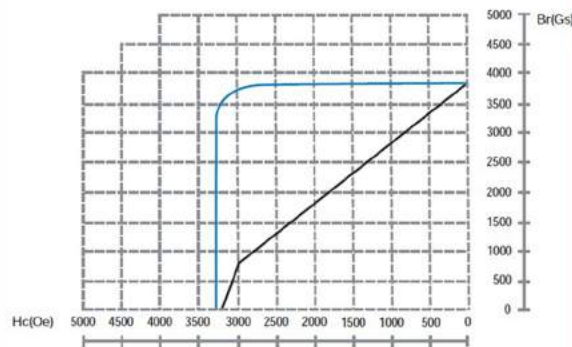
Y25 Anisotropic Ferrite Magnet



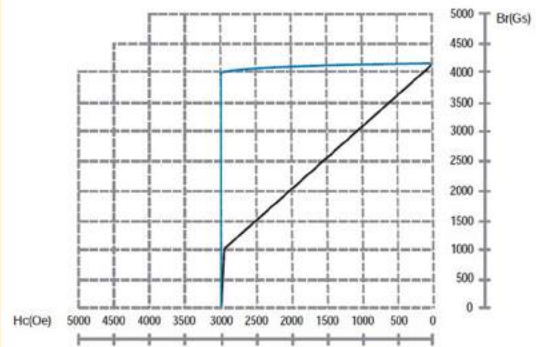
Y30 Anisotropic Ferrite Magnet



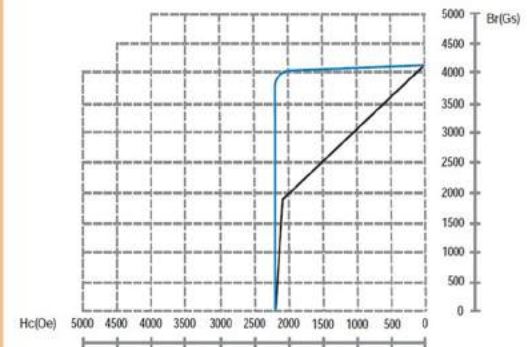
Y30BH Anisotropic Ferrite Magnet



Y33 Anisotropic Ferrite Magnet



Y35 Anisotropic Ferrite Magnet



Physical Properties of Ferrite Magnet

Physical Properties of Ferrite Magnet		
Parameter	Unit	Standard Values
Curie Temperature	°C	450
Maximum Operating Temperature	°C	250
Hardness	Hv	480-580
Density	g/cm ³	4.8-4.9
Relative Recoil Permeability	U _{rec}	1.05-1.2
Temperature Coefficient of Br	%/°C	-0.2
Temperature Coefficient of iH _c	%/°C	0.3
Tensile Strength	N/mm ²	<100
Strength	N/mm ²	300
Resistivity	Ω.cm	>10 ⁴
Specific Heat	Cal/g.°C	0.15-0.2
Deflective Strength T	Kgf/mm ²	5-10

Performance Parameter Table of Permanent Ferrite

	Br(mT)		HCB(KA/m)		HCJ(KA/m)		(BH)max(KJ/m³)		SJ/T10401-2001
	Br(Gs)		HCB(Oe)		HCJ(Oe)		(BH)max(MGOe)		
Y8T	200~235	2000~2350	125~160	1570~2009	210~280	2637~3516	6.5~9.5	0.81~1.19	
Y8T-1	220~240	2200~2400	135~175	1695~2198	278~320	2491~4019	8.5~11.1	1.06~1.39	
Y22H	310~360	3100~3600	220~250	2763~3140	280~320	3516~4019	20.0~24.0	2.51~3.52	
Y25	360~400	3600~4000	135~170	1695~2135	140~200	1758~2512	22.5~28.0	2.83~3.52	
Y26H-1	360~390	3600~3900	200~250	2512~3140	225~255	2826~3202	23.0~28.0	2.9~3.52	
Y26H-2	360~380	3600~3800	263~288	3303~3617	318~350	3994~4396	24.0~28.0	3.01~3.52	
Y27H	350~380	3500~3800	225~240	2826~3014	235~260	2951~3265	25.0~29.0	3.14~3.65	
Y28	370~400	3700~4000	175~210	2198~2637	180~220	2260~2763	26.0~30.0	3.3~3.77	
Y28H-1	380~400	3800~4050	240~260	3014~3265	250~280	3140~3516	27.0~30.0	3.40~3.77	
Y28H-2	360~380	3600~3800	271~295	3403~3705	381~405	4797~5086	26.0~30.0	3.27~3.77	
Y30H-1	380~400	3800~4000	230~275	2888~3454	235~290	2951~3642	26.0~32.5	3.27~4.14	
Y30H-2	395~415	3950~4150	275~300	3454~3768	310~335	3893~4207	27.0~32.0	3.39~4.02	
Y32	400~420	4000~4200	160~190	2009~2386	165~195	2072~2449	30.0~33.5	3.76~4.2	
Y32H-1	400~420	4000~4200	190~230	2386~2888	230~250	2888~3140	31.5~35.0	3.95~4.39	
Y32H-2	400~440	4000~4400	224~240	2813~3014	230~250	2888~3140	31.0~34.0	3.95~4.33	
Y32H-3	400~420	4000~4200	246~269.8	3100~3400	262~285.8	3300~3600	29.4~32.6	3.7~4.1	
Y32H-4	400~420	4000~4200	270~293.8	3400~3700	280~303.8	3520~3820	30.0~33.2	3.8~4.2	
Y33	410~430	4100~4300	220~250	2763~3140	225~255	2826~3202	31.5~35.0	3.96~4.4	
Y33H-1	410~430	4100~4300	250~270	3140~3390	250~275	3140~3454	31.5~35.0	3.96~4.4	
Y33H-2	410~430	4100~4300	270~303	3390~3805	326~359	4094~4509	30.25~33.45	3.79~4.2	
Y34	420~440	4200~4400	200~230	2512~2888	205~235	2575~2951	32.5~36.0	4.08~4.52	
Y34H	420~440	4200~4400	275~310	3434~3893	285~350	3580~4396	34.0~36.5	4.28~4.58	

Performance Parameter Table of Permanent Ferrite

Y35	430~450	4300~4500	215~239	2700~3000	217~241	2725~3026	33.0~38.2	4.16~4.8	
Y4030	390~410	3900~4100	215~255	2700~3200	231~271	2900~3400	3.7~4.3	29.4~33.4	FB3N C8A
Y3934	480~400	4800~4000	247~279	3100~3500	255~287	3200~3600	3.4~4.0	27.1~31.8	PMF-2BD
Y3838	370~390	3700~3900	255~287	3200~3600	295~326	3700~4100	3.1~3.7	24.7~29.4	Y26H-2 C9
Y3640	350~370	3500~3700	247~279	3100~3500	311~342	3900~4300	2.8~3.4	22.3~27.1	Y26H-2 C7 PMF-2BB
Y4129	400~420	4000~4200	215~255	2700~3200	223~263	2800~3300	3.8~4.3	30.2~34.2	Y32H-1 FB4D C8B
Y4034	390~410	3900~4100	239~271	3000~3400	255~287	3200~3600	3.5~4.1	27.9~32.6	FB4B C10
Y3939	380~400	3800~4000	255~287	3200~3600	303~334	3800~4200	3.4~4.0	27.1~31.8	PMF-2BE
Y3849	370~390	3700~3900	247~279	3100~3500	382~414	4800~5200	3.1~3.7	24.7~29.4	Y28H-2 FB6E PMF-2BF
Y4230	410~430	4100~4300	231~263	2900~3300	239~271	3000~3400	4.0~4.4	31.5~34.7	Y33 FB4X C11 PMF-6BB
Y4135	400~420	4000~4200	247~279	3100~3500	271~303	3400~3800	3.8~4.3	30.2~34.2	Y33H FB5B PMF-5BD
Y4040	390~410	3900~4100	263~295	3300~3700	310~342	3900~4300	3.7~4.2	29.4~33.4	Y30H-2 FB5H C12 PMF-5BF
Y3948	380~400	3800~4000	255~287	3200~3600	366~398	4600~5000	3.4~4.0	27.1~31.8	
Y4335	420~440	4200~4400	255~287	3200~3600	271~303	3400~3800	4.1~4.5	32.6~35.8	FB6N PMF-7BD
Y4240	410~430	4100~4300	279~311	3500~3900	310~342	3900~4300	4.0~4.4	31.5~34.7	FB6B PMF-7BE
Y4045	390~410	3900~4100	263~295	3300~3700	350~382	4400~4800	3.8~4.3	30.2~34.2	FB6H PMF-6BF
Y4350	420~440	4200~4400	295~326	3300~4100	382~414	4800~5200	4.2~4.7	33.4~37.4	FB9H PMF-9BF
Y4430	430~450	4300~4500	231~263	2900~3300	239~271	3000~3400	4.2~4.5	33.4~35.8	Y32H-2 FB5N PMF-7BB
Y4537	440~460	4400~4600	271~303	2900~3300	287~334	3600~4200	4.4~5.0	35.0~39.8	Y38 FB9N PMF-9BD
Y4445	430~450	4300~4500	303~334	3800~4200	342~374	4300~4700	4.3~4.8	34.2~38.2	Y40 FB9B PMF-9BE
Y4254	410~430	4100~4300	287~318	3600~4000	406~438	5100~5500	4.0~4.4	31.5~34.7	PMF-9BG

INJECTION MOLDED FERRITE MAGNET

Product Description



Injection molded magnet is a new type of functional polymer composite material and an important basic material in the field of modern science and technology. Compared with sintered magnetic materials, injection molded magnet has the advantages of precise size, light weight, complicated shape, and not fragile. Various resins such as nylon, PPS (polyphenylene sulfide), and elastic plastics can be selected as substrates, mixed with ferrite magnetic powder, neodymium iron boron magnetic powder, and processed by plastic injection molding technology, mainly used for high-performance micro Motors (stepping motors, brushless motors), automotive motors, copiers, laser printers, magnetron sensors, precision instruments, etc.



Process Flow

Weighing



Coupling Processing



Mixing



Prilling



Packaging



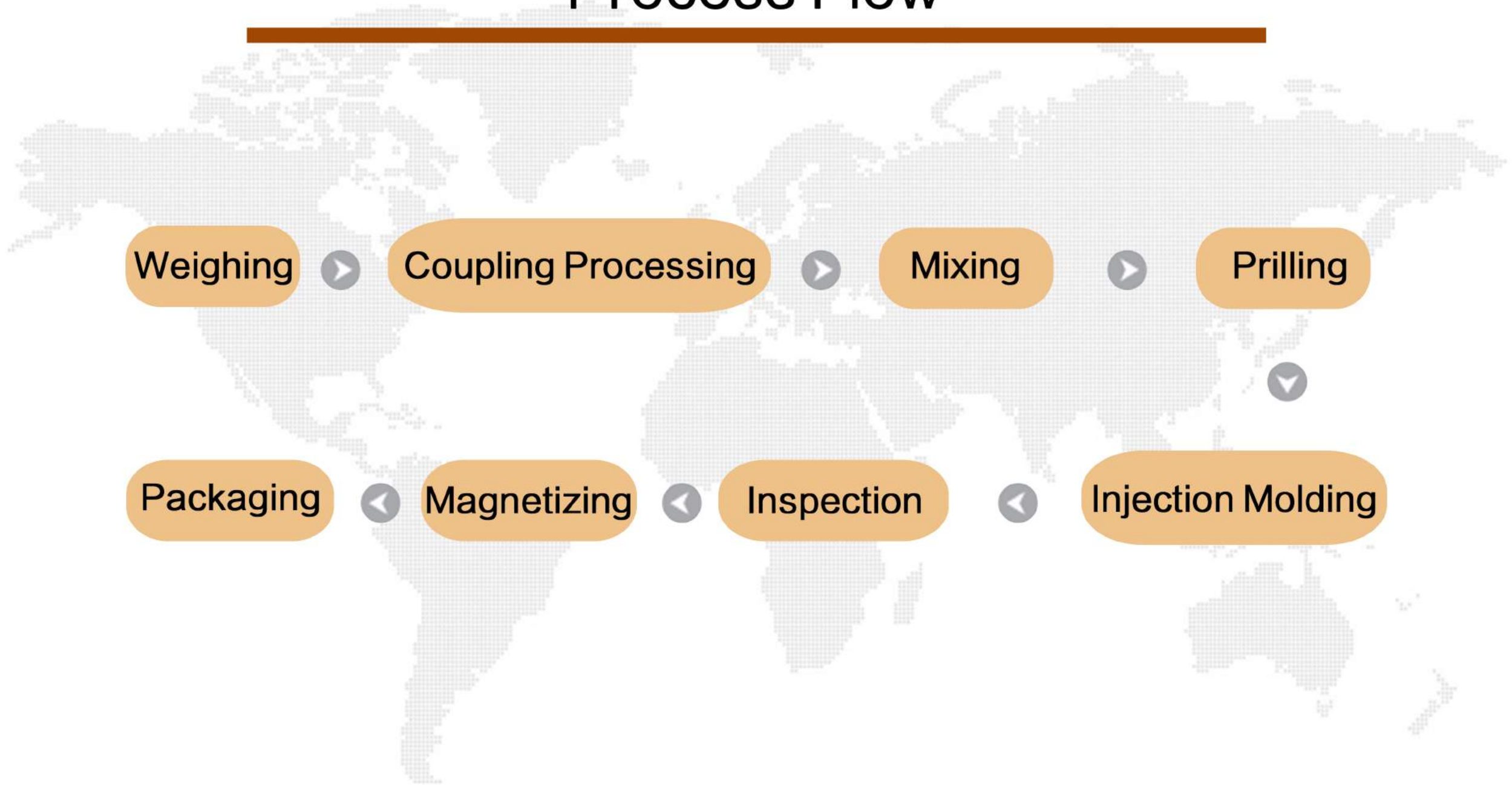
Magnetizing



Inspection



Injection Molding



Application



Used for headlight control motor



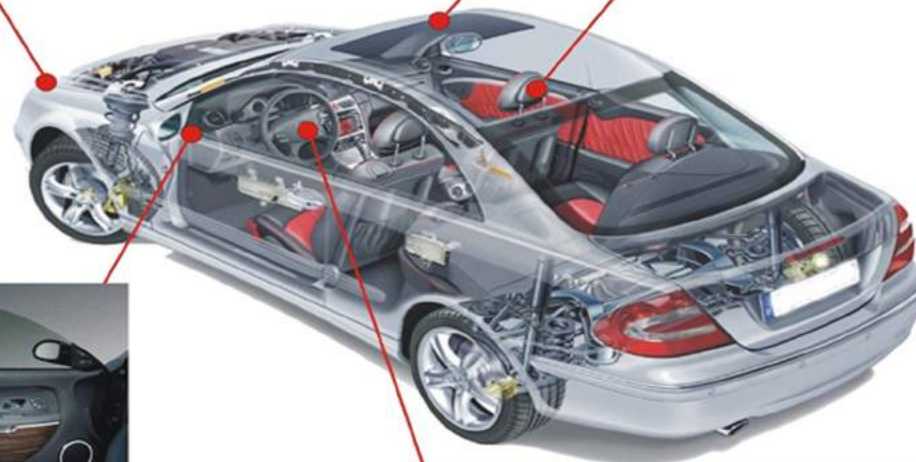
Used for sunroof adjustment motor



Used for electric seat adjustment motor



Used for window adjustment motor



Used for steering wheel adjustment sensor

SAMARIUM COBALT MAGNET

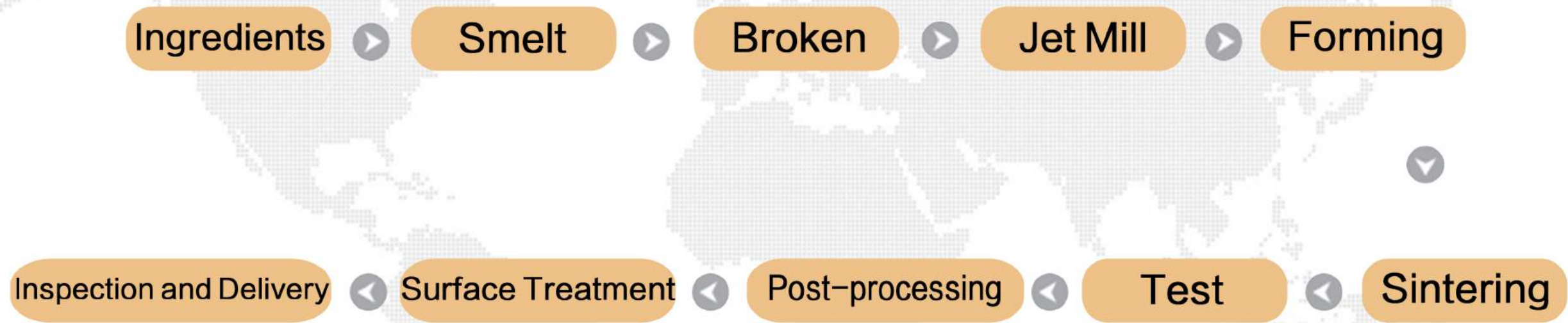
Product Description



Samarium cobalt magnet is a kind of rare earth magnet. It is made of samarium, cobalt and other metal rare earth materials through mixing ratio, melting into alloy, It is made after crushing, pressing and sintering, the maximum working temperature can reach 350℃. It can be divided into SmCo_5 and $\text{Sm}_2\text{Co}_{17}$ according to the different components, which can be processed into different shapes and sizes. It has the characteristics of high temperature resistance, corrosion resistance, high magnetic energy product, and low temperature coefficient. It is widely used in communication base stations, national defense and military industry, aerospace, electrical machinery and other fields.



Process Flow



Performance Table

Magnetic properties of smco magnets

Item	grade	Br		Hcb		Hcj		(BH) _{max}		T _w	P
		T	Kgs	KA/M	Koe	KA/M	Koe	KJ/M ³	MGOe	℃	g/cm ³
Sm1Co5	Sm1Co5-20	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	151-167	19-21	≤250	8.3
	Sm1Co5-22	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	159-175	20-22	≤250	8.3
	Sm1Co5-24	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	175-191	22-24	≤250	8.3
Sm1Co17	Sm1Co17-30L	1.08-1.00	10.8-11.0	541-796	6.8-10.0	636-955	8-12	223-239	28-30	≤250	8.4
	Sm1Co17-32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	231-255	29-32	≤250	8.4
	Sm1Co17-30L	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	223-239	28-30	≤300	8.4
	Sm1Co17-32L	1.10-1.15	11.0-11.5	676-852	8.5-10.7	955-1433	12-18	231-255	29-32	≤300	8.4
	Sm1Co17-30L	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-223	26-28	≤300	8.4
	Sm1Co17-30L	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	223-239	28-30	≤300	8.4
	Sm1Co17-30L	1.10-1.15	11.0-11.5	812-860	10.2-10.8	≥1433	≥18	231-255	29-32	≤300	8.4
	Sm1Co17-30L	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1990	≥25	207-223	26-28	≤350	8.4
	Sm1Co17-30L	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	223-239	28-30	≤350	8.4
	Sm1Co17-30L	1.10-1.15	11.0-11.5	812-860	10.2-10.8	≥1990	≥25	231-255	29-32	≤350	8.4



Communication Base Station



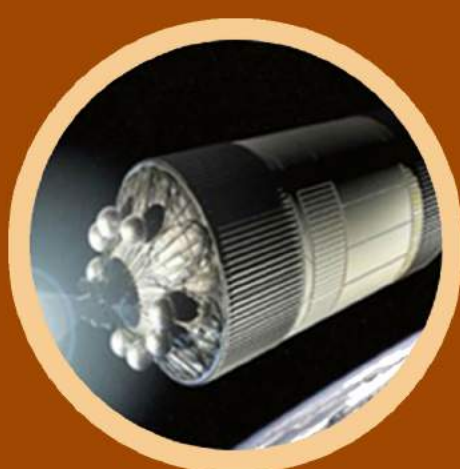
High Temperature Electric Box



High Temperature Magnetic Separator



Military Field



Aerospace



Rail Traffic

AlNiCo MAGNET

Product Description



Alnico permanent magnet material is composed of aluminum, nickel, cobalt and other trace elements to form an alloy. According to different material ratios and production processes, it can be divided into casting and sintering. The maximum working temperature can reach 550 °C. It is not easy to oxidize and can be used in automotive parts, instrumentation, electro acoustics, motor, education, aerospace, military field and so on.



Process Flow of Sintered AlNiCo Magnet



Performance Table

Performance table of Sintered AlNiCo

Grade	MMPA	Br	(BH)max	Hcb	Tc	Tw	T.C.a(Br)	Density
		mT/Gs	Kj/m ³ / MGOe	Ka/m / Oe	°C	°C	%/°C	g/cm ³
		Typical	Typical	Typical	Typical	Typical	Typical	
FLN8	S.ALNICO3	500/5000	8/1.00	40/500	760	450	-0.022	6.9
FLNG12	S.ALNICO2	700/7000	12/1.5	48/600	810	450	-0.014	7.1
FLNGT18	S.ALNICO7	600/6000	18/2.20	90/1130	860	450	-0.02	7.3
FLNG34	S.ALNICO5	1200/12000	34/4.25	48/600	890	450	-0.016	7.3
FLNGT28	S.ALNICO6	1050/10500	28/3.50	56/700	850	450	-0.02	7.3
FLNGT38	S.ALNICO8	800/8000	38/4.75	120/1500	850	450	-0.02	7.3
FLNGT42	S.ALNICO8	880/8800	42/5.25	120/1500	820	450	-0.02	7.3
FLNGT33J	S.ALNICO8HC	700/7000	33/4.13	140/1750	850	450	-0.025	7.3
FLNGT36J	S.ALNICO8	700/7000	36/4.50	140/1750	850	450	-0.025	7.3

Process Flow of Casting AlNiCo Magnet



Performance Table

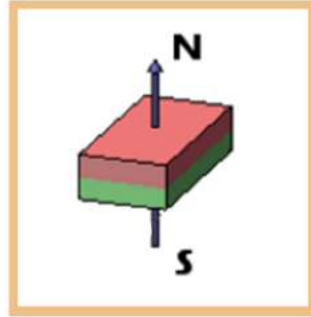
Performance table of cast AlNiCo

Grade	MMPA	Br	Hcb	(BH)max	Tc	Tw	T.C.a(Br)	T.C.a(Hcj)	Density
		mT/Gs	Ka/m / Oe	Kj/m ³ / MGOe	°C	°C	%/°C	%/°C	g/cm ³
		Typical	Typical	Typical	Typical	Typical	Typical	Typical	
LN10	ALNICO3	600/6000	40/500	10/1.25	750	550	-0.02	-0.03~-0.07	6.9
LNG10		600/6000	44/550	10/1.25	750	550	-0.02	-0.03~-0.07	6.9
LNG12	ALNICO2	700/7000	44/550	12/1.50	800~850	550	-0.02	-0.03~-0.07	7.1
LNG13		680/6800	48/600	13/1.63	800~850	550	-0.02	-0.03~-0.07	7.1
LNG16	ALNICO4	800/8000	48/600	16/2.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNG18		900/9000	48/600	18/2.25	800~850	550	-0.02	-0.03~-0.07	7.3
LNG37	ALNICO5	1200/12000	48/600	37/4.63	800~850	550	-0.02	-0.03~-0.07	7.3
LNG40		1230/12300	48/600	40/5.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNG44		1250/12500	52/650	44/5.50	800~850	550	-0.02	-0.03~-0.07	7.3
LNG48	ALNICO5DG	1280/12800	56/700	48/6.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNG52		1300/13000	56/700	52/6.50	800~850	550	-0.02	-0.03~-0.07	7.3
LNG56	ALNICO5-7	1300/13000	58/720	56/7.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNG60		1330/13300	60/750	60/7.50	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT28	ALNICO6	1000/10000	56/700	28/3.50	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT30		1100/11000	56/700	30/3.75	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT18	ALNICO8	580/5800	800/1000	18/2.25	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT32		800/8000	100/1250	32/4.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT38		800/8000	110/1380	38/4.75	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT44		850/8500	115/1450	44/5.50	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT48	ALNICO8HE	900/9000	120/1500	48/6.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT60	ALNICO9	900/9000	110/1380	60/7.50	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT72		1050/10500	112/1400	72/9.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT80		1080/10800	120/1500	80/10.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT88		1100/11000	115/1450	88/11.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT96		1150/11500	118/1480	96/12.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT36J	ALNICO8HC	700/7000	140/1750	30/4.50	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT48J		800/8000	145/1820	48/6.00	800~850	550	-0.02	-0.03~-0.07	7.3
LNGT52J		850/8500	140/1750	52/6.50	800~850	550	-0.02	-0.03~-0.07	7.3

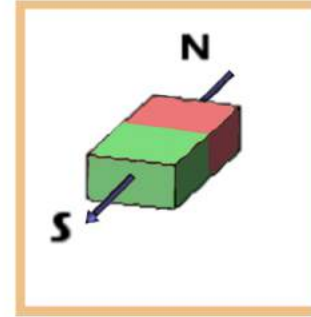
MAGNETIZING DIRECTION

Schematic Diagram of Square Magnet Magnetization

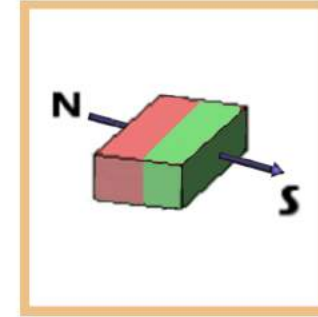
Schematic Diagram
of Square Magnet
Magnetization



Thickness Magnetized

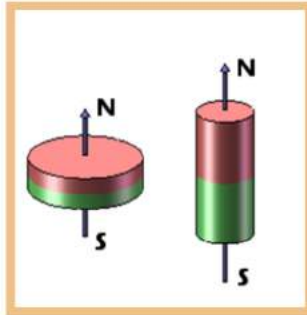


Length Direction Magnetized

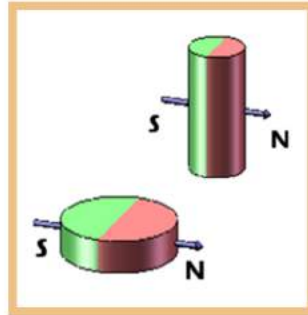


Width Direction Magnetized

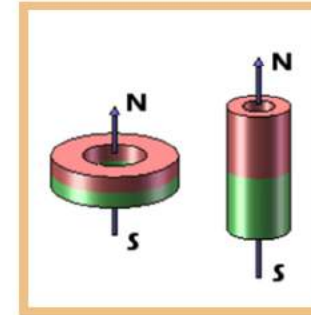
Schematic Diagram
of Cylinder/ Ring
Magnet
Magnetization



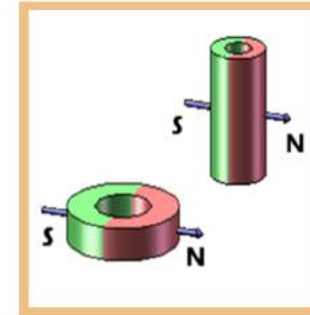
Width Direction Magnetized



Radial Magnetized

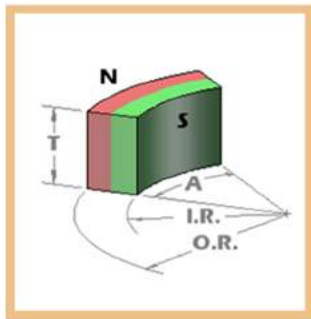


Width Direction Magnetized

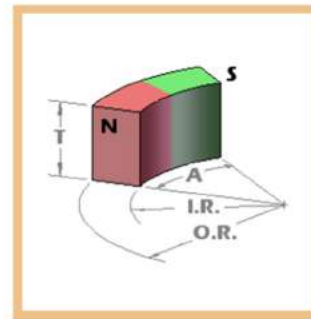


Radial Magnetized

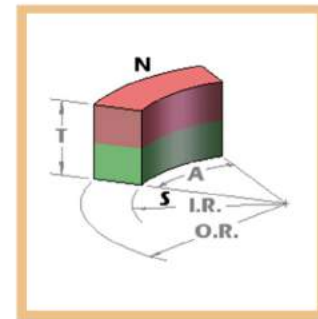
Schematic Diagram
of Arc Magnet
Magnetization



Radial Magnetized



Width Direction Magnetized



Thickness Magnetized



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