



我們確信質量與服務是超越經驗與技術的無價之寶

是產品永遠滿足客戶的保證

亦此為準經營公司，放眼未來

更嚴格地控制品質，提升服務素質

我們珍惜每一個合作的機會

將產品逐步推向世界每一個有市場的角落

在每一個產品服務的地方建立起品牌的形象

面向新世紀，我們將托起新一輪“太陽”

公司簡介

Introduction

年弘磁業有限公司是於1982年成立的一家專業生產永久磁鐵的科技型企業，主要從事釹鐵硼，鐵氧體，橡膠磁鐵，磁性健康飾品，強力磁性分離器，鉛鎳鈷，鈰鈷永久磁鐵等產品的開發，生產與銷售。

我公司以科技創新，實行科學管理，廣納社會英才，建立了一支技術領先，經驗豐富的科技隊伍，為確保產品性能和質量提供了強有力的後盾，作為先進科技產物，我公司的各類磁鐵以廣泛應用於DC馬達，同步馬達，磁感應器，玩具，音響喇叭，運動器材，通訊器材，健康飾品，五金扣等各方面。上海公司兼併臺灣總公司技術，創新，可靠的經營理念及顧客至上的品質政策，憑藉自身的實力與信念，勵精圖志，不斷進取，力求把產品創造出最好的價格比。

歡迎您來電來函進行詢價和索樣，就我們產品的品質提出寶貴意見，以提高我們素質，我們將不勝感激。

Nian hung magnet industrial CO.,Ltd. was founded in 1982 which is a HITECH- company specialized in permanent magnet product, including:(ND, iron, boron, iron) oxide, rubber magnet magnetism healthy decoration item, powerful magnetism separator, (AL, nickel, samarium, cobalt) permanent magnet, ect. Develop, manufacture and marketing (wholesale/detail sale)

Our company always emphasizes in technical renovation and practice a scientific management principle so that more and more thlent person is attract here and gradually come to a professional and experienced technical team. The team also is the guaranty of the high quality and stable performance of our product. as the result of advanced technology, our different kinds magnet is widely used in DC motor, synmotor. Magnet sensor, toy, acoustics speaker, sports instrument, healthy decoration, hardware button and so on our Shanghai subsidiary inherit and develop the technology and renovation, reliable business principle from headquarter in Taiwan. Insist on "customer is foremost" quality policy, use our strength and faith Improve constantly to produce high quality and competitive pice product.

Enquiry and asking for sample is welcomed and it is also highly appreciated if you can give us any kind of comments and advice to improve our quality!





燒結鐵氧體 Sintered Ferrite Magnet



- 是由粉末冶金法製造
Produce by powder metallurgical method
- 化學組成為-Ba/Sr O.6 Fe₂O₃
Chemical composition of Ba/Sr O.6 Fe₂O₃
- 較堅硬和脆
Relatively brittle & hard
- 不易退磁
Good resistance to demagnetization
- 非常好防蝕性
Excellent corrosion resistance
- 價格低廉，來源豐富
Raw material is readily available & low in cost
- 溫度穩定性佳
Good temperature stability
- 最廣泛性用之永磁
Most widely used permanent magnets

燒結釹鐵硼磁體 Neodymium-Rare Earth Magnet, Sintered



- 是由粉末冶金法製造，化學組成為-Nd₂Fe₁₄B
Produce by powder metallurgical method with chemical composition of Nd₂Fe₁₄B
- 非常之堅硬和脆
Very brittle & hard
- 如沒有適當塗層或電鍍，材料抗蝕性低
Poorest corrosion resistance of all commercial MAGNET material
- 高抗退磁性
High resistance to demagnetization
- 高成本、性能比例
Excellent cost to performance ratio
- 一般溫度穩定性
Reasonable temperature stability
- 不適用於高工作溫度環境
Not suitable for application which exposed in high temperature conditions

橡膠磁 Flexible MAGNET Rubber



- 由硬磁鐵氧體嵌在非磁性材料本體生產出來之複合材料，成品由擠壓或軋制製成
Made by consolidating Strontium or Barium ferrite powder with polymer matrix, Form in profiles, strips & sheets by extrusion/calendering method.
- 由于材料本身可塑性高，制成品或半制成品可隨意刀切、打孔、縱切和滾上其他物料
Product can be stamped, slit, punched & laminated
- 不易退磁，良好防蝕，價格低廉，來源豐富
Good demagnetization resistance & reasonable resistance to chemical agents.
Material is readily available & low in cost

注射粘結磁 Injection Bonded Magnet



- 鐵氧體或稀土磁粉混于熱塑性材料用注射法成型
Composition of hard ferrite or rare earth magnet powders are embedded in thermoplastic and formed on injection moulding machine.
- 磁體可在生產途中加入主動軸或其他插件
It is possible to incorporate shafts or other insert to the magnet during manufacturing process
- 其獨特之機械性能可制成不同複雜形狀：
如帶齒輪、薄磁環型和其他特別异形體
Varities of shapes can be manufactured.
Such as gears, thin ring and many other complicated forms
- 良好防蝕性和防破碎
Good resistance to corrosion and chips
- 磁體可按客人要求全隻或部分充磁
All or only part of the magnet can be magnetized

燒結釷鈷磁體 Samarium-Rare Earth Magnet, Sintered



- 是由粉末冶金法製造，化學組成為-SmCo₅/Sm₂Co₁₇
An alloy compose of SmCo₅/Sm₂Co₁₇
Produce by powder metallurgical method
- 極之堅硬和脆
Extremely hard & brittle
- 高抗退磁性
High demagnetization resistance
- 原料供應有限，故成本高
Limited raw material supply result high in cost
- 良好溫度穩定性
Outstanding thermal stability
- 極好之抗蝕性能
Excellent anti-corrosion properties

鋁鎳鈷磁體 Alnico Magnets



- 鑄造或粉末冶金法製造
Produce by casting or powder metallurgical techniques
- 由Al-Ni-Fe-Co組成之合金
An alloy composed of matrix of Al-Ni-Fe-Co
- 非常之堅硬和脆
Very hard & brittle
- 低抗退磁性能
Poor resistance to demagnetization
- 一般成本、性能比例
Produce good flux density at a reasonable cost
- 極佳溫度穩定性
Excellent stability over a wide temperature range

磁性掛鈎 Magnetic Pothook



- 異方性鐵氧體/致磁磁材內藏于鐵蓋內，吸力可高達32公斤
Anisotropic Ferrite or NdFeB magnet set in mild steel housing, available in many different form and shape. Adhesive force can be reached 32Kgs.
- 磁性組件產品
MAGNET Systems for Consumer Application:
-MAGNET name badges 磁性名牌組件
-MAGNET clothing button 磁性鈕扣
- 表面處理：烤各色油漆，如可電鍍鉍或鍍
Superficial treatment: Roast various paint, e.g. electrogalvanizing or nickel



磁力棒 Magnetic Stick



- 用途：應用于食品，飲料，塑膠射出，電子等
Use in food, drink, plastics, electronics etc.
- 加工尺寸：Φ20, Φ22, Φ25, Φ30, Φ60, Φ70
Processing dimension: Φ20, Φ22, Φ25, Φ30, Φ60, Φ70
- 可依客戶需求，設計各種外徑，長，寬，厚的特殊磁力棒
For the customer need, we can design all kinds of outer-diameter, length, width, thickness, and special magnetic stick.
- 磁力：可達10000高斯以上，過濾性好。
Magnetic force: above 10000 Gauss good filtering
- 功能：吸附或清除鐵屑
Function: absorb or eliminate iron bits

鐵板分離機 Metal Plate Separator



- 用途：適用於整疊薄鐵板之分離，或可變更于鐵屑分離使用。
Suitable for separating a pile of thin iron plates or for chip separation
- 特點：利用磁極同性相斥之原理，使難以分開之薄鐵板能輕易的取出。
By the principle of mutual repulsion between same magnetic poles, this item can separate the thin iron plates easily
- 亦可使用于小型輸送帶上做鐵屑分離之作業。
Also usable for chips separation on the small conveyor belt.

永磁式磁選機器 Suspended Self-Cleaning Magnetic Separator



- 特點：結構緊湊，構件小，便于安裝、便于維修管理；
Compact structure and small sizes make it easily to suspend, repair and maintain.
- 採用高性能磁材，磁力強，吸附距離大；
High-grade magnets adopted enables strong magnetic force and longer catching distance.
- 運行平穩，噪音低，連續吸存鐵，使用方便；
Stable and reliable working. Low noises. Remove tramp irons continuously and effectively. Easy to operate.
- 磁極密封性強，能有效抵抗工作現場大量腐蝕氣體的侵蝕。
Better air-proof magnet core prevents the equipment from lots of corrosive gases at the working spot.

電磁鐵 Electric Magnetic Iron Remover



- 體積小，體量輕，結構嚴謹，免維修，無噪音，溫升低
Small volume, light weight, structured and maintain free, without noise, low temperature capitalising
- 電源關閉後，鐵屑自動掉落。
power off, iron automatic drop.
- 適用範圍：適用於各種物料除鐵較惡劣的環境下使用
Application: Electromagnetic separator are suitable for different kinds working conditions, especially for the worse conditions



燒結鐵氧體 Sintered Ferrite Magnet

一般物理性能 Typical Physical Properties

		參數 Parameter			
居裏溫度 Curie Temp.	℃	450	回復磁導率 Rev. Recoil Permeability	μ _{rec}	1.05-1.20
最高工作溫度 Max. Operating Temp.	℃	250	剩磁溫度係數 Temp. Coefficient of Br	%/℃	-0.2
硬度 Hardness	Hv	480-580	內稟矯頑力溫度係數 Temp. Coefficient of iHc	%/℃	0.3
密度 Density	g/cm ³	4.8-4.9	拉伸強度 Tensile Strength	N/mm ²	<100
飽和磁化 Saturation Field Strength	kOe	10	橫向強度 Transverse Rupture Strength	N/mm ²	300
	kA/m	800			

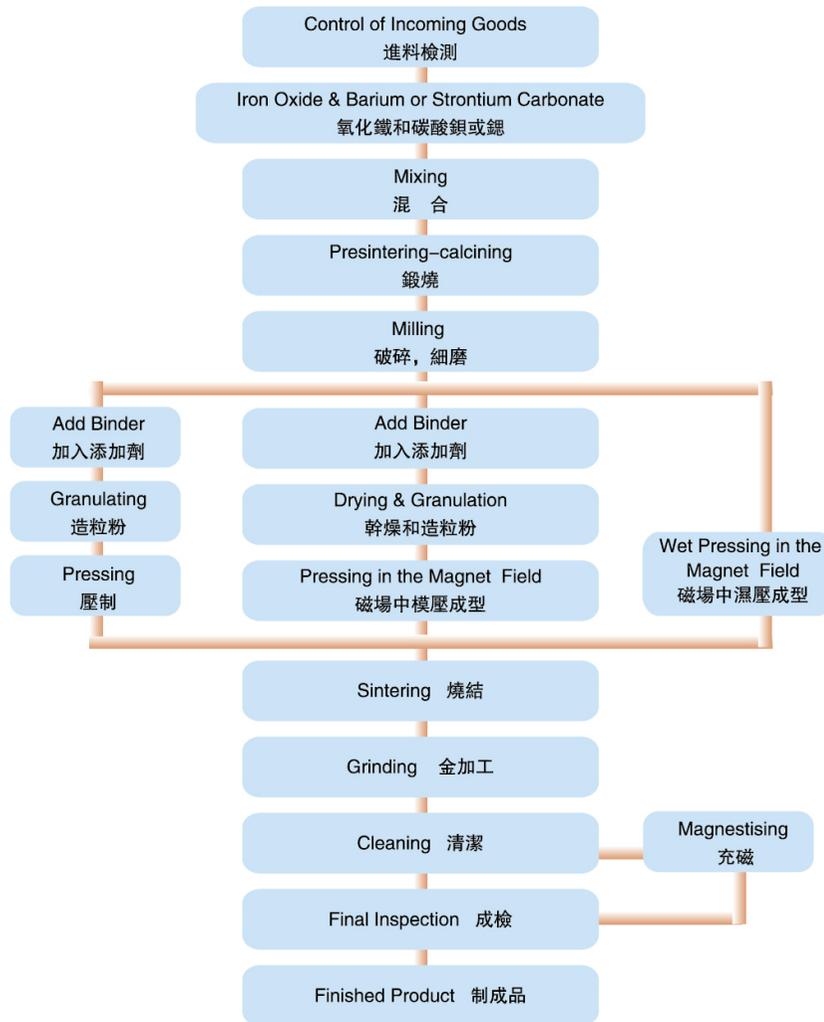
一般磁材性能 Typical Magnet Properties

磁材 Material	等方/ 異方性 Iso/ Anisotropic	剩磁 Remanence		矯頑力 Coercivity		內稟矯頑力 Intrinsic Coercivity		最大磁能積 Max. Energy Product	
		Br(mT)	Br(Gs)	Hcb(kA/m)	Hcb(Oe)	Hcj(kA/m)	Hcj(Oe)	(BH) _{max} (KJ/m ³)	(BH) _{max} (MGOe)
Y10	Isotropic	200-235	2000-2350	125-160	1570-2010	210-280	2640-3520	6.5-9.5	0.8-1.2
Y25	Anisotropic	360-400	3600-4000	135-170	1700-2140	140-200	1760-2510	22.5-28.0	2.8-3.5
Y30	Anisotropic	370-400	3700-4000	175-210	2200-2640	180-220	2260-2770	26.0-30.0	3.3-3.8
Y30BH	Anisotropic	380-400	3800-4000	230-275	2890-3460	235-290	2950-3650	27.0-32.5	3.4-4.1
Y33	Anisotropic	410-430	4100-4300	220-250	2770-3140	225-255	2830-3210	31.5-35.0	4.0-4.4
Y35	Anisotropic	400-420	4000-4200	160-190	2010-2380	165-195	2070-2450	30.0-33.5	3.8-4.2



燒結鐵氧體 Sintered Ferrite Magnet

生產流程圖 Production Flow Diagram



燒結釹鐵硼磁體 Neodymium-Rare Earth Magnet, Sintered

一般物理性能 Typical Physical Properties

參數 Parameter					
居裏溫度 Curie Temp.	°C	310-370	硬度 Hardness	Hv	560-580
最高工作溫度 Max. Operating Temp.	°C	80-220	密度 Density	g/cm ³	7.40
電阻率 Resistivity	μ Ω .cm	160	回復磁導率 Rev. Recoil Permeability	μ rec	1.05
飽和磁化 Saturation Field Strength	kOe	30-40	剩磁溫度係數 Temp. Coefficient of Br	%/°C	-0.12~-0.10
	kA/m	2,400-3,200	內稟矯頑力溫度係數 Temp. Coefficient of iHc	%/°C	-0.6

表面處理 Surface Treatments

Type	Information
金屬 Metallic	鋅、鎳、鎳+鎳、銅+鎳、鎳+銅+鎳、金、銀 Zinc, Nickel, Nickel+Nickel, Copper+Nickel, Nickel+Copper+Nickel, Gold
有機 Organic	環氧樹脂噴塗、鎳+環氧樹脂噴塗 Epoxy, Nickel+Epoxy coating
暫時性 Temporary	表面鈍化 Surface Passivation

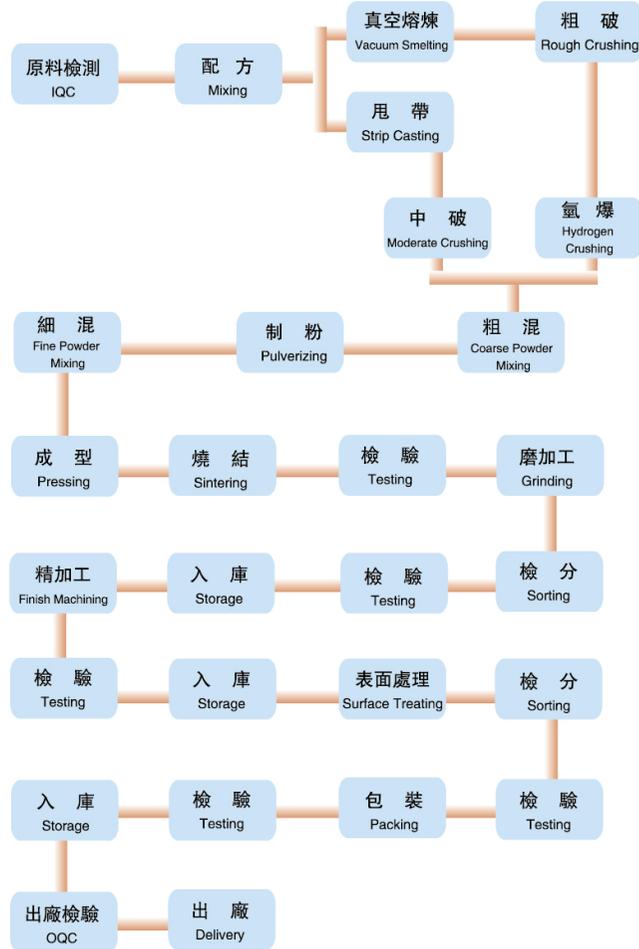
尺寸範圍/一般公差 Dimension Range/Nominal Tolerance

環形 Ring	Outer Dia. 外徑	Inner Dia. 內徑	Thickness 厚度	圓餅形 Disc	Diameter 外徑	Thickness 厚度
最大 Maximum	194.00mm	105.00mm	50.00mm	最大 Maximum	130.00mm	50.00mm
最少 Minimum	2.00mm	1.20mm	0.50mm	最少 Minimum	1.20mm	0.50mm
公差 Tolerance	+/-0.05mm	+/-0.05mm	+/-0.05mm	公差 Tolerance	+/-0.05mm	+/-0.05mm
方塊形 Block	Length 長	Width 闊	Thickness 厚度	瓦形和其他特別形狀 Segment & other irregular shape		
最大 Maximum	200.00mm	200.00mm	50.00mm	可按照客戶來樣或圖紙生產 Can be manufactured according to customer's sample or blue print		
最少 Minimum	3.00mm	1.20mm	0.50mm			
公差 Tolerance	+/-0.1mm	+/-0.1mm	+/-0.1mm			



燒結釹鐵硼磁體 Neodymium-Rare Earth Magnet, Sintered

燒結釹鐵硼工藝流程圖 The process chart of sintered ndfeb



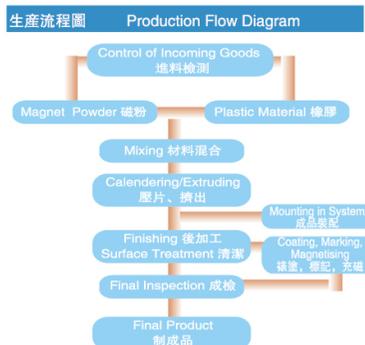
燒結釹鐵硼磁體 Neodymium-Rare Earth Magnet, Sintered

序號 NO.	牌號 Grade	剩磁 Br		矯頑力 Hcb		內稟矯頑力 Hcj	最大磁能積 (BH) max		工作溫度 TW* L/D=0.7 ℃
		T KGs		KA/m KOe			KJ/m ³ MGOe		
		Nom	Nim	Nom	Nim	KA/m KOe	Nom	Nim	
1	N35	1.22 12.2	1.18 11.8	907 11.4	860 10.8	≥955 ≥12	287 36	263 33	≤80
2	N38	1.26 12.6	1.22 12.2	907 11.4	860 10.8	≥955 ≥12	303 38	287 36	≤80
3	N40	1.29 12.9	1.26 12.6	907 11.4	860 10.8	≥955 ≥12	318 40	303 38	≤80
4	N42	1.33 13.3	1.29 12.9	907 11.4	860 10.8	≥955 ≥12	342 43	318 40	≤80
5	N45	1.37 13.7	1.33 13.3	907 11.4	836 10.5	≥955 ≥12	366 46	342 43	≤80
6	N48	1.41 14.1	1.37 13.7	836 10.5	716 9.0	≥836 ≥10.5	390 49	366 46	≤80
7	N50	1.45 14.5	1.41 14.1	907 10.5	860 10.8	≥836 ≥10.5	406 51	390 49	≤80
8	N35M	1.22 12.2	1.18 11.8	907 11.4	860 10.8	≥1114 ≥14	287 36	263 33	≤100
9	N38M	1.26 12.6	1.22 12.2	907 11.4	860 10.8	≥1114 ≥14	303 38	287 36	≤100
10	N40M	1.29 12.9	1.26 12.6	907 11.4	860 10.8	≥1114 ≥14	318 40	303 38	≤100
11	N42M	1.33 13.3	1.29 12.9	907 11.4	860 10.8	≥1114 ≥14	342 43	318 40	≤100
12	N45M	1.37 13.7	1.33 13.3	907 11.4	860 10.8	≥1114 ≥14	366 46	342 43	≤100
13	N48M	1.41 14.1	1.37 13.7	907 11.4	860 10.8	≥1114 ≥14	390 49	366 46	≤100
14	N33H	1.18 11.8	1.14 11.4	876 11.0	820 10.3	≥1353 ≥17	263 33	247 31	≤120
15	N35H	1.22 12.2	1.18 11.8	907 11.4	876 11.0	≥1353 ≥17	287 36	263 33	≤120
16	N38H	1.26 12.6	1.22 12.2	940 11.8	890 11.2	≥1353 ≥17	303 38	287 36	≤120
17	N40H	1.29 12.9	1.26 12.6	995 12.5	939 11.5	≥1353 ≥17	318 40	303 38	≤120
18	N42H	1.33 13.3	1.29 12.9	995 12.5	939 11.8	≥1353 ≥17	342 43	318 40	≤120
19	N44H	1.35 13.5	1.33 13.3	1035 13.0	956 12.0	≥1353 ≥17	358 45	342 43	≤120
20	N46H	1.38 13.8	1.35 13.5	1035 13.0	956 12.0	≥1353 ≥17	374 47	358 45	≤120
21	N33SH	1.18 11.8	1.14 11.4	876 11.0	820 10.3	≥1592 ≥20	263 33	247 31	≤150
22	N35SH	1.22 12.2	1.18 11.8	907 11.4	860 10.8	≥1592 ≥20	287 36	263 33	≤150
23	N38SH	1.26 12.6	1.22 12.2	907 11.4	860 10.8	≥1592 ≥20	303 38	287 36	≤150
24	N40SH	1.29 12.9	1.26 12.6	907 11.4	860 10.8	≥1592 ≥20	318 40	303 38	≤150
25	N42SH	1.33 13.3	1.29 12.9	907 11.4	860 10.8	≥1592 ≥20	342 43	318 40	≤150
26	N44SH	1.35 13.5	1.33 13.3	907 11.4	860 10.8	≥1592 ≥20	358 45	342 43	≤150
27	N30UH	1.14 11.4	1.08 10.8	844 10.6	804 10.1	≥1989 ≥25	247 31	223 28	≤180
37	N33UH	1.18 11.8	1.14 11.4	876 11.0	820 10.3	≥1989 ≥25	263 33	247 31	≤180
38	N35UH	1.22 12.2	1.18 11.8	907 11.4	860 10.8	≥1989 ≥25	287 36	263 33	≤180
39	N38UH	1.26 12.6	1.22 12.2	907 11.4	860 10.8	≥1989 ≥25	303 38	287 36	≤180
40	N30EH	1.14 11.4	1.08 10.8	844 10.6	804 10.1	≥2387 ≥30	247 31	223 28	≤200
41	N33EH	1.18 11.8	1.14 11.4	876 11.0	820 10.3	≥2388 ≥30	263 33	247 31	≤200
42	N35EH	1.22 12.2	1.18 11.8	907 11.4	836 10.5	≥2388 ≥30	287 36	263 33	≤200



橡膠磁 Flexible Magnet Rubber

一般物理性能 Typical Physical Properties		
參數 Parameter		
拉伸強度 Tensile Strength	Kg/cm ³	20<f<100
伸長度 Elongation	%	60<l<300
硬度 Hardness	Hv	95+/-5
密度 Density	g/cm ³	3.70+/-0.2
飽和磁化 Saturation Field Strength	kOe	10
	kA/m	800
撓曲成 Flexibility	No crack when twisting around a testing bar dia.20~dia.60	
扭轉性 Twist	No crack at twist with 180° twice	



可選之粘合劑 Binder Selection

Binder Type	資料 Information
氯化聚乙烯 CPE	最廣泛、低廉之粘合劑、可塑性佳 Most common & economy material, good fabrication properties
腈基丁二烯橡膠 NBR	粘合劑有非常好之抗油性，用於氣車工業，和感應器 Good resistance to organic solvent such as thinners & petroleum. For motors & sensors which uses flexible magnets

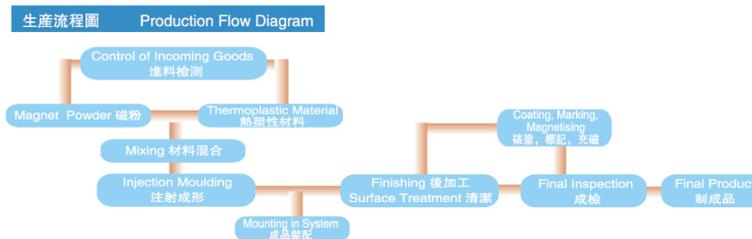
可選之疊層材料 Coating Selection

Type	資料 Information
聚氯乙烯塑料 PVC	適用於各類之印刷方法 Suitable for various kinds of printing methods
雙面膠貼 Self-adhesive tape	壓感貼或海綿貼 Available in pressure sensitive and foam backing

一般磁材性能 Typical Magnet Properties

磁材 Material	等方/异方性 Iso/Anisotropic	剩磁 Remanence		矯頑力 Coercivity		內稟矯頑力 Intrinsic Coercivity		最大磁能積 Max. Energy Product	
		Br(mT)	Br(Gs)	Hcb(kA/m)	Hcb(Oe)	Hcj(kA/m)	Hcj(Oe)	(BH)max (KJ/m ³)	(BH)max (MGOe)
Flex-7L	Isotropic	165+/-10	1,650+/-100	108+/-8	1,350+/-100	132+/-8	1,850+/-100	5.2+/-0.4	0.65+/-0.05
Flex-7H	Isotropic	170+/-10	1,700+/-100	112+/-8	1,400+/-100	136+/-8	1,700+/-100	5.6+/-0.4	0.70+/-0.05
Flex-10	Semi-aniso	220+/-5	2,200+/-50	136+/-8	1,700+/-100	1,60+/-8	2,000+/-100	8.0+/-0.4	1.00+/-0.05
Flex-12	Anisotropic	245+/-5	2,450+/-50	140+/-8	1,750+/-100	148+/-8	1,850+/-100	11.2+/-0.4	1.40+/-0.05
Flex-12BH	Anisotropic	247.5+/-2.5	2,475+/-25	168+/-8	2,100+/-100	224+/-8	2,800+/-100	12.0+/-0.4	1.50+/-0.05

注射粘結磁 Injection Bonded Magnets



一般物理性能 Typical Physical Properties

參數 Parameter	單位	注射粘結鐵氧體磁 Injection Bonded ferrite Magnets			注射粘結釹鐵硼磁 Injection Bonded NdFeB Magnets				
		PBF-10	PBF-11	PBF-13	PBF-15	PBN-6	PBN-8	PBN-10	PBN-12
居里溫度 Curie Temp.	°C	450			310	310	310	310	310
最高工作溫度 Max. Operating Temp.	°C	120			140	140	110	130	125
密度 Density	g/cm ³	3.4-3.7			5.8-6.2	5.8-6.2	5.8-6.2	6.2-6.4	5.8-6.2
回復磁導率 Rev. Recoil Permeability	μ rec	1.3			1.15	1.15	1.22	1.22	1.15
飽和磁化 Saturation Field Strength	kOe	10			>25	>25	>25	>25	>40
	kA/m	800			>=2,000	>=2,000	>=2,000	>=2,000	>=3,200
剩磁溫度係數 Temp. Coefficient of Br	%/°C	-0.2			-0.13	-0.13	-0.07-0.105	-0.13	-0.07-0.105

一般磁材性能 Typical Magnet Properties

磁材 Material	牌號 Grade	剩磁 Remanence		矯頑力 Coercivity		內稟矯頑力 Intrinsic Coercivity		最大磁能積 Max. Energy Product	
		Br(mT)	Br(Gs)	Hcb(kA/m)	Hcb(Oe)	Hcj(kA/m)	Hcj(Oe)	(BH)max (KJ/m ³)	(BH)max (MGOe)
注射粘結鐵氧體磁 Injection Bonded Ferrite Magnets	PBF-10	220-240	2,200-2,400	145-165	1,800-2,060	190-225	2,375-2,810	9.0-10.6	1.13-1.33
	PBF-11	230-250	2,300-2,500	160-185	2,000-2,310	225-260	2,810-3,250	10.0-12.0	1.25-1.50
	PBF-13	250-270	2,500-2,700	175-195	2,180-2,440	200-230	2,500-2,875	11.5-14.5	1.44-1.82
	PBF-15	270-290	2,700-2,900	175-195	2,180-2,440	200-230	2,500-2,875	14.5-16.5	1.82-2.07
注射粘結釹鐵硼磁 Injection Bonded NdFeB Magnets	PBN-6	520-600	5,200-6,000	304-360	3,800-4,500	640-800	8,000-10,000	40-56	5-7
	PBN-8	600-650	6,000-6,500	360-440	4,500-5,500	640-960	8,000-12,000	56-72	7-9
	PBN-10	650-700	6,500-7,000	360-464	4,500-5,800	640-960	8,000-12,000	72-80	9-10
	PBN-12	700-760	7,000-7,600	424-480	5,300-6,000	640-880	8,000-11,000	80-96	10-12
	PBN-8H	550-620	5,500-6,200	400-488	5,000-6,000	960-1,280	12,000-16,000	48-72	6-9



燒結釷鈷磁體 Samarium-Rare Earth Magnet, Sintered

一般物理性能 Typical Physical Properties

參數 Parameter		
居裏溫度 Curie Temp.	°C	700-800
最高工作溫度 Max. Operating Temp.	°C	250
電阻率 Resistivity	$\mu \Omega \cdot \text{cm}$	50-90
硬度 Hardness	Hv	450-600
密度 Density	g/cm^3	8.0-8.5
回復磁導率 Rev. Recoil Permeability	μrec	1.10
飽和磁化 Saturation Field Strength	kOe kA/m	>37.5 >3,000
剩磁溫度系數 Temp. Coefficient of Br	%/°C	-0.05~-0.03
內稟矯頑力溫度系數 Temp. Coefficient of iHc	%/°C	-0.25~-0.19

生產流程圖 Production Flow Diagram



一般磁材性能 Typical Magnet Properties

磁材 Material	牌號 Grade	剩磁 Remanence		矯頑力 Coercivity		內稟矯頑力 Intrinsic Coercivity		最大磁能積 Max. Energy Product	
		Br(mT)	Br(Gs)	Hcb(kA/m)	Hcb(kOe)	Hcj(kA/m)	Hcj(Oe)	(BH)max (KJ/m³)	(BH)max (MGOe)
SmCo ₅	S16	750-800	7.5-8.0	557-637	7.0-8.0	>=1,989	>=25	111-143	14-18
	S18	800-930	8.0-9.3	597-677	7.5-8.5	>=1,432	>=18	127-159	16-20
	S20	850-980	8.5-9.8	597-677	7.5-8.5	>=1,273	>=16	143-175	18-22
Sm ₂ Co ₁₇	S180	900-1,030	9.0-10.3	597-677	7.5-8.5	>=1,194	>=15	127-159	16-20
	S22A	900-1,030	9.0-10.3	613-693	7.7-8.7	>=1,989	>=25	159-191	20-24
	S22B	900-1,030	9.0-10.3	613-693	7.7-8.7	>=1,432	>=18	159-191	20-24
	S240	980-1,080	9.0-10.8	636-716	8.0-9.0	>=1,432	>=18	175-207	22-26
	S26A	1,000-1,130	10.0-11.3	676-756	8.5-9.5	>=1,194	>=15	191-223	24-28
	S26B	1,000-1,130	10.0-11.3	676-756	8.5-9.5	>=769	>=10	191-223	24-28
	S280	1,030-1,130	10.0-11.3	716-796	9.0-10.0	>=1,432	>=18	207-239	26-30
	S270	1,000-1,100	10.0-11.0	357-516	4.5-6.5	>=413	>=5.2	183-223	24-28
	S300	1,100-1,200	11.0-12.0	438-517	5.5-6.5	>=454	>=5.7	223-255	28-32

鋁鎳鈷磁體 Alnico Magnets

一般物理性能 Typical Physical Properties

參數 Parameter		
居裏溫度 Curie Temp.	°C	860
最高工作溫度 Max. Operating Temp.	°C	525-550
電阻率 Resistivity	$\mu \Omega \cdot \text{cm}$	47-54
硬度 Hardness	Hv	520-630
密度 Density	g/cm^3	6.9-7.3
回復磁導率 Rev. Recoil Permeability	μrec	1.70-4.70
飽和磁化 Saturation Field Strength	kOe kA/m	2.7-6.3 215-500
剩磁溫度系數 Temp. Coefficient of Br	%/°C	-0.025~-0.02
內稟矯頑力溫度系數 Temp. Coefficient of iHc	%/°C	+0.01~+0.03

生產流程圖 Production Flow Diagram



一般磁材性能 Typical Magnet Properties

Grade	Br	Hcb	(BH)max	Tc.	Tw.	aBr	MMPA Equivalent	IEC Equivalent
	[mT] [Gs]	[kA/m] [Oe]	[KJ/m³] [MGOe]	[°C]	[°C]	[%/°C]		
*LN9	690	37	9.0	760	500	-0.03	Alnico3	Alnico9/3
	6900	470	1.13					
*LN10	600	40	10.0	760	500	-0.03		
	6000	500	1.25					
*LNG12	720	45	12.0	810	500	-0.03	Alnico2	Alnico12/6
	7200	600	1.50					
LNG13	700	48	13.0	810	500	-0.03		
	7000	600	1.63					
LNG16	800	53	16.0	850	500	-0.02	[Alnico4]	/
	8000	660	2.00					
LNG18	1050	48	30.0	850	500	-0.02	[Alnico4]	/
	10500	600	3.75					
LNG18	1180	44	32.0	890	500	-0.02	[Alnico5C]	/
	11800	550	4.00					
LNG32	1180	44	34.0	890	500	-0.02	[Alnico5C]	/
	11800	550	4.25					
LNG34	1200	48	37.0	890	500	-0.02	Alnico5	Alnico37/5
	12000	600	4.65					
LNG37	1250	48	40.0	890	500	-0.02	Alnico5	/
	12500	600	5.00					
LNG40	1250	52	44.0	890	500	-0.02		Alnico44/5
	12500	650	5.50					
LNG44	1250	52	48.0	890	500	-0.02	Alnico5DG	Alnico52/6
	12500	600	6.00					
LNG48	1300	56	52.0	890	500	-0.02		
	13000	700	6.50					
LNG52	1350	56	60.0	890	500	-0.02	Alnico5-7	/
	13500	700	7.50					
LNG60	1050	56	28.0	890	500	-0.02	Alnico6	Alnico26/6
	10500	700	3.50					
LNGT28	580	90	18.0	890	500	-0.03	[Alnico7]	Alnico17/9
	5800	1130	2.20					
*LNGT18	800	100	32.0	860	500	-0.03	Alnico8	Alnico38/11
	8000	1250	4.00					
LNGT32	800	104	34.0	860	500	-0.03		/
	8000	1300	4.25					
LNGT34	820	100	38.0	860	500	-0.03		/
	8200	1380	4.75					
LNGT38	880	120	44.0	860	500	-0.03		/
	8800	1500	5.50					
LNGT44	900	120	48.0	860	500	-0.03		/
	9000	1500	6.00					
LNGT48	900	120	60.0	860	500	-0.03	Alnico60/11	/
	9000	1380	7.50					
LNGT60	1050	112	72.0	860	500	-0.03		/
	10500	1410	9.00					
LNGT72	1100	120	82.0	860	500	-0.03	Alnico9	/
	11000	1500	10.25					
LNGT82	1100	150	88.0	860	500	-0.03		/
	11000	1500	11.0					
LNGT88	1120	150	92.0	860	500	-0.03		/
	11200	1500	11.50					
LNGT92	700	140	36.0	860	500	-0.03	Alnico8HC	Alnico36/15
	7000	1750	4.50					

Note:*means isotropy