RY 睿熠科技

干压烧结锶铁氧体粉
Sintered strontium ferrite powder for dry pressing

Ruiyi's anisotropic sintered magnetic ferrite powder with high performance for dry-pressing series can be used in manufacture of high energy motor magnetic tile, radial/multiple oriented ring, cylindrical magnet, small size&thin and comparatively intricate shape magnet etc.

Product specification (LaCo not be contained)

Property		RY-3HG	RY-6.3HG1	RY-6.3HG2
Br	mT	383±5	380±5	370±5
	Gs	3830±50	3800±50	3700±50
bHc	kA/m	227±12	247±12	251±12
	Oe	2850±150	3100±150	3150±150
jHc	kA/m	235±12	255±12	267±12
	Oe	2950±150	3200±150	3350±150
(BH)max	kJ/m^3	26.3±1.2	26.7±1.2	25.1±1.2
	MGOe	3.30±0.15	3.35±0.15	3.15±0.15
Shrinkage	%	13.5±1.0	13.5±1.0	13.5±1.0
	Ratio	1.143~1.695	1.143~1.695	1.143~1.695
APD	μm	0.80±0.10	0.80±0.10	0.80±0.10
Moisture	%	≤0.5	≤0.5	≤0.5

Product specification (LaCo be contained)

Property		RY-7.1HG	RY-7.2HG	RY-7.3HG	RY-8.1HG	RY-9.1HG	RY-9.2HG	RY-9.3HG
Br	mT	387±5	390±5	375±10	375±10	395±10	370±10	400±10
	Gs	3870±50	3900±50	3750±100	3750±100	3950±100	3700±100	4000±100
bHc	kA/m	247±12	243±12	271±12	275±12	263±12	275±12	263±12
	Oe	3100±150	3050±150	3400±150	3450±150	3300±150	3450±150	3300±150
jHc	kA/m	255±12	251±12	299±12	334±12	275±12	394±12	275±12
	Oe	3200±150	3150±150	3750±150	4200±150	3450±150	4950±150	3450±150
(BH)max	kJ/m^3	27.1±1.2	27.5±1.2	25.9±1.6	25.9±1.6	29.5±1.6	25.9±1.6	29.9±1.6
	MGOe	3.40±0.15	3.45±0.15	3.25±0.20	3.25±0.20	3.70±0.20	3.25±0.20	3.75±0.20
Shrinkage	%	13.5±1.0	13.5±1.0	13.5±1.0	13.5±1.0	13.5±1.0	13.5±1.0	13.5±1.0
	Ratio	1.143~1.695	1.143~1.695	1.143~1.695	1.143~1.695	1.143~1.695	1.143~1.695	1.143~1.695
APD	μm	0.80±0.10	0.80±0.10	0.80±0.10	0.80±0.10	0.80±0.10	0.80±0.10	0.80±0.10
Moisture	%	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5

Contact: Ph:+86 10 60212068 Fax:+86 10 60212068 E-mail: sales@ruiyimagnet.com

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湿压烧结锶铁氧体粉
Sintered strontium ferrite powder for wet pressing

RY-9/12 Series sintered strontium ferrite powder that Sr be replaced by rare-earth metal La, and Fe be replaced by Co, which help higher magnetic properties be obtained, Br+1/3HcJ (Measure Br and HcJ comprehensive magnetic properties) can be achieve 5450-5950, compare to the traditional strontium ferrite magnet, the volume of magnet be made from our RY-9 series sintered strontium ferrite powder be smaller than 20%, and the temperature characteristic is superior remarkably, the temperature coefficient be decreased from +0.5 +0.3%K to +0.15%K, so that can be used in low temperature environment, especially high altitude and high latitude area.

Product specification (LaCo be contained)

Property		RY-9H	RY-9.1	RY-9.2	RY-9.3	RY-9.4	RY-12.1	RY-12.2
Br	mT	425±5	435±5	425±5	420±5	420±5	440±5	435±5
	Gs	4250±50	4350±50	4250±50	4200±50	4200±50	4400±50	4350±50
bHc	kA/m	298.5±8	306.5±8	308.5±8	306.5±8	306.5±8	318±8	318±8
	Oe	3750±100	3850±100	3900±100	3850±100	3850±100	4000±100	4000±100
jHc	kA/m	319±8	335±8	362±8	386±8	386±8	378±8	402±8
	Oe	4000±100	4200±100	4550±100	4850±100	4850±100	4750±100	5050±100
(BH)max	kJ/m3	34.4±0.8	36.0±0.8	33.6±0.8	32.8±0.8	33.6±0.8	36.0±0.8	35.2±0.8
	MGOe	4.3±0.1	4.5±0.1	4.2±0.1	4.1±0.1	4.2±0.1	4.5±0.1	4.4±0.1
Shrinkage	%	13.0±1.0	13.0±1.0	13.0±1.0	12.5±1.0	12.5±1.0	13.5±1.0	13.5±1.0
	Ratio	1.135~1.163	1.135~1.163	1.135~1.163	1.130~1.156	1.130~1.156	1.143~1.170	1.143~1.170
APD	μm	0.70±0.02	0.70±0.02	0.70±0.02	0.70±0.02	0.70±0.02	0.75±0.02	0.75±0.02

Product specification (LaCo not be contained)

Property		RY-7.1H			RY-7H
Br	mT	425±5	410±5	395±5	395±5
	Gs	4250±50	4100±50	3950±50	3950±50
bHc	kA/m	223±8	263±8	290±8	290±8
	Oe	2800±100	3300±100	3650±100	3650±100
jHc	kA/m	231±8	275±8	318±8	318±8
	Oe	2900±100	3450±100	4000±100	4000±100
(BH)max	kJ/m3	33.6±1.6	32.8±1.0	30.4±1.6	30.4±1.6
	MGOe	4.20±0.2	4.1±0.2	3.8±0.2	3.8±0.2
Shrinkage	%	13.0±1.0	13.0±1.0	13.0±1.0	11.5±1.0
	Ratio	1.135~1.163	1.135~1.163	1.135~1.163	1.110~1.136
APD	μm	0.70±0.02	0.70±0.02	0.70±0.02	0.70±0.02
Remark	*Same coarse magnetic powder, different second formulation*				*Low shrinkage*

Contact: Ph:+86 10 60212068 Fax:+86 10 60212068 E-mail: sales@ruiyimagnet.com

RY 睿熠科技

粘结永磁铁氧体粉
Bonded permanent ferrite powder

Ruiyi supply full range of bonded permanent ferrite powder for wide application, Isotropic bonded ferrite powder be used in manufacturing of automobile vibration damping, refrigerator door seal magnetic stripe, advertising and stationery magnet etc. Anisotropic strontium ferrite powder for injection molding can be used in manufacturing of micro-motor magnetic ring, magnetic rotor, and magnetic roll of static electricity copying machine and laser printer. Anisotropic strontium ferrite powder for calendering process can be used in manufacturing of motor magnetic stripe etc.

Product specification

Property		RY-200N	RY-200	RY-200P	RY-460	RY-470
Typical Powder Property	CD (g/cm^3)	3.05±0.10	3.05±0.10	3.20±0.10	3.05±0.10	3.15±0.10
	APD	1.80±0.4	1.80±0.4	2.75±0.75	1.25±0.15	1.50±0.20
	Moisture(%)	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50
Green piece	Br(Gs)	≥1400	≥1500	≥1400	1700±100	1750±100
	bHc(Oe)	≥1180	≥1200	≥1150	1500±80	1550±100
	jHc(Oe)	≥2250	≥2100	≥2000	3500±500	2900±200
	(BH)max	≥0.45	≥0.50	≥0.45	0.66±0.08	0.65±0.05
Calender	Br(Gs)	≥1750	≥1950	≥1750	2700±50	2700±100
	bHc(Oe)	≥1400	≥1400	≥1400	2400±200	2100±150
	jHc(Oe)	≥1900	≥1600	≥1900	3400±500	2200±300
	(BH)max	0.90±0.06	0.92±0.06	0.90±0.06	1.75±0.06	1.70±0.06
Material	/	$BaFe_{12}O_{19}$	$SrFe_{12}O_{19}$	$SrFe_{12}O_{19}$	$SrFe_{12}O_{19}$	$SrFe_{12}O_{19}$
Molding	_____	Intrusion or Calender	Intrusion or Calender	Intrusion or Calender	Intrusion or Calender	Intrusion or Calender

Product specification

Property		RY-70	RY-72	RY-73
Typical Powder Property	CD (g/cm^3)	3.40±0.10	3.50±0.10	3.50±0.10
	APD	1.60±0.20	1.60±0.20	1.50±0.20
	Moisture(%)	≤0.40	≤0.40	≤0.40
Green piece	Br(Gs)	1800±50	1850±50	1850±50
	bHc(Oe)	1500±80	1480±80	1550±80
	jHc(Oe)	3050±200	2600±200	3100±200
	(BH)max	0.72±0.06	0.74±0.10	0.74±0.10
Material	/	SrFe12O19	$SrFe_{12}O_{19}$	$SrFe_{12}O_{19}$
Molding	____	Injection or Intrusion	Injection or Intrusion	Injection or Intrusion

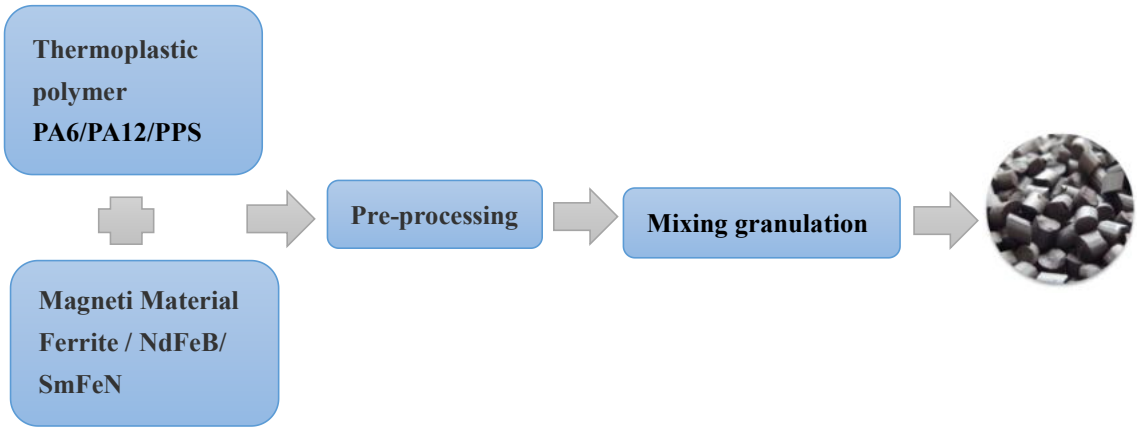
Contact: Ph:+86 10 60212068 Fax:+86 10 60212068 E-mail: sales@ruiyimagnet.com

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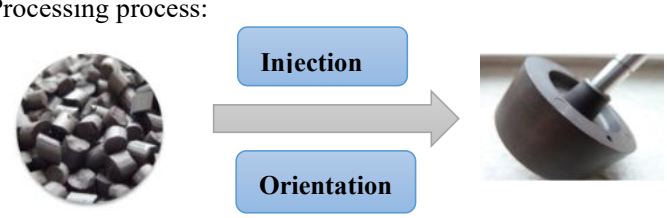
注射成型磁性粒料
Magnetic compound for injection molding

Magnetic compound be complexed by bonded magnetic powder (Permanent ferrite powder, bonded NdFeB powder) and thermoplastic resin(PA6,PA12,PPS), antioxidant, plasticizer etc., which be homogenous mixed continuously and cut into granule. Based on our good magnetic and physical properties, that can be the raw material of complicated parts in automobile and all kinds of electric equipment, for example: Permanent magnetic stator in DC motor, Multipole permanent magnetic rotor in brushless DC motor and stepping motor, Magnetic roll in laser printer, Magnetic sensor in Various industrial equipment.

Manufacturing process:



Processing process:



Product Advantages:

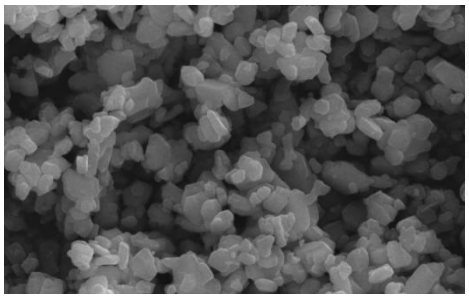
1. Low density, light weight
2. Full range of magnetic property and Resin Binder is in diversity
3. The shape of magnet can be designed flexibly, magnetic pole orientation is free.
4. Excellent Mechanical properties, very hard to craking and notch.
5. Integrated molding bring high cost-effective, good high speed running performance.
6. High precision of dimension.

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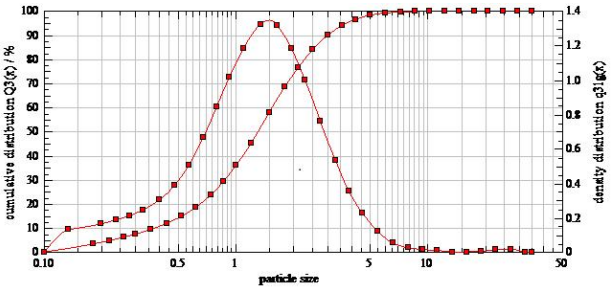
RY 睿熠科技

磁记录粉
Magnetic recording powder

Ruiyi supplies full range of Magnetic powder for recording, from low coercivity to high coercivity with brown and black color, that can be widely used in information record and identification, for example: magnetic tape of bank card, magnetic railway ticket, magnetic printing ink etc.
Our magnetic recording powder with appropriate coercive force, good particle size distribution, that are the key factors of magnetic recording product with good switching field distribution.



RY-620B(2750Oe) SEM



RY-620B Particle size distribution

Product specification

Property		RY-620B	RY-820B
Typic powder property	APD	0.85-1.05	0.85-1.05
	Moisture(%)	≤0.50	≤0.50
Green piece	Br(Gs)	1400-1500	1400-1500
	jHc(Oe)	2800±100	3600±100
	(BH)max	0.45-0.55	≥0.50
Material	/	$BaFe_{12}O_{19}$	$SrFe_{12}O_{19}$

Product specification

Property	RY-220V (Brown)	RY-220VB(Black)
Hc(Oe)	310-330	310-330
Sig M	70-75	80-85
Sig R	36-40	30-36
SSA	22-28	8-14
Oil Absorption	42-50	42-52
Tapped Density	0.80-1.05	0.80-1.00
Moisture	≤0.5	≤0.5
FeO	≤0.5	≥25
pH	3.0-5.0	4.0-6.0

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电磁波吸收材料 I
Electronic wave absorbing material

Ruiyi has a series of electromagnetic wave absorbing materials, flexible rubber electromagnetic wave absorbers with high performance that can be widely applied in various field, such as stealth technique, electrical communication,electromagnetic compatibility(EMC),etc.

- Service frequency range: 1~ 40GHz
  Absorption: -5~ 40 dB
  Service temperature: -40℃~ +80℃

- Powder absorbent
  RY- PLS (1 ~ 4 GHz)
  RY- PS (2 ~ 8 GHz)
  RY-PX (8 ~ 18 GHz)
  RY- PK (18 ~ 26.5 GHz)
  RY- PQ (26.5 ~ 40 GHz)

- Flexible rubber electromagnetic wave absorber

Product No.	Service frequency range/GHz	Thickness/mm	Density/g/cm^3	Absorption/dB
RY-RS	2 ~ 4	2.7	4.41	-20
RY-RC	4 ~ 8	1.8	4.28	-22
RY-RX	8 ~ 12	2.0	2.90	-29
RY-RJ	12 ~ 18	1.0	3.70	-29
RY-RK	18 ~ 26.5	1.1	3.10	-46
RY-RQ	26.5 ~ 40	0.6	3.67	-35
RY-RLS	1 ~ 4	2.2	4.77	-19
RY-RSC	2 ~ 8	1.6	4.69	-16
RY-RXJ1	8 ~ 18	0.5	4.80	-7
RY-RXJ2	8 ~ 18	1.0	3.90	-13
RY-RXJ3	8 ~ 18	1.6	3.19	-18
RY-RXJ4	8 ~ 18	2.0	2.80	-32
RY-RSJ	2 ~ 18	1.3	4.31	-10

Contact: Ph:+86 10 60212068 Fax:+86 10 60212068 E-mail: sales@ruiyimagnet.com