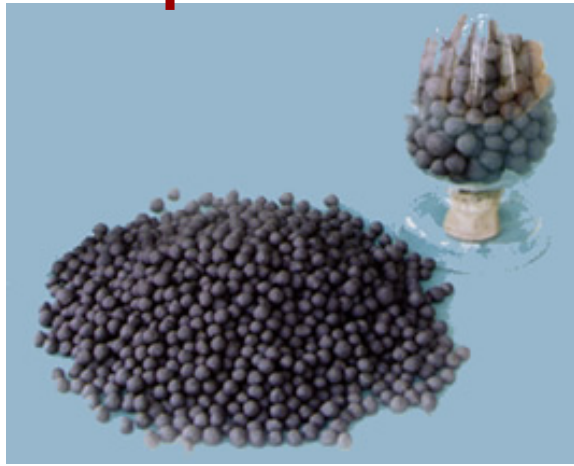


# Dry pressing ferrite powder

Presintered Ferrite powder YXC



Type	Material	Qualified standard of magnetic property					Rate of shrinkage (%)	Average size			Water content of fine powder (%)	Name used before
		Br (m T)	bHc (KA/m)	iHc (KJ/m)	(BH)max (KJ/m <sup>3</sup> )	Testing direction		Spheric (mm)	Coarse powder (um)	Fine powder (um)		
YXC-1	Ferroxdure	≥220	≥139	≥199	≥7.56	//	15±1	6-12	3-6	0.80-0.90	≤0.5	Normal isomorphism barium
YXC-1R	Ferroxdure	≥210	≥131	≥239	≥7.16	⊥	15±1	6-12	3-6	0.80-0.90	≤0.5	Radial barium
YXC-1A	Ferroxdure	≥230	≥143	≥239	≥8.36	//	15±1	6-12	3-6	0.80-0.90	≤0.5	High performance isomorphism barium
YXC-3	Strontian ferrite	≥380	≥151	≥155	≥26.3	//	12±1	6-12	-	0.90-1.00	≤0.5	Baric isomerism
YXC-4	Strontian ferrite	≥380	≥215	≥223	≥27.1	//	13±1	6-12	3-6	0.80-0.90	≤0.5	Strontium isomerism
YXC-5	Strontian ferrite	≥400	≥223	≥231	≥30.2	//	13±1	6-12	3-6	0.70-0.80	≤0.5	Y35
YXC-5H	Strontian ferrite	≥380	≥267	≥290	≥27.1	//	13±1	6-12	3-6	0.70-0.78	≤0.5	Y34

## Specification of YXC Dry Pressing Strontium Ferrite Magnetic Materials

YXC series Strontium Dry Pressing Ferrite Magnetic Powders are suitable for producing magnets by dry pressing. According to the requirement, such products can be classified as isotropic powder and anisotropic powder, anisotropic powder has better orientability. The strict quality control system ensures that the quality is stable and reliable.



## 1. YXC series Dry Pressing Strontium Ferrite Material Properties

Trade Mark	Material	Characteristics of products									Granularity			Forming methods	
		Br(mT)		bHc(kA/m)		ihc(kA/m)		(BH)max(kJ/m <sup>3</sup> )		SHR %	Pellets (mm)	Coarse Powder (μm)	Fine powder		Min
		Typical	Min	Typical	Min	Typical	Min	Typical	Min						
YXC-2.4B	SrFe <sub>12</sub> O <sub>19</sub>	380	370	183	167	199	183	27.1	25.5	15.5 ± 1			0.80-0.90	Anisotropic dry press	
YXC-2.4	SrFe <sub>12</sub> O <sub>19</sub>	360	350	223	207	239	223	23.9	22.3	15.5 ± 1	6-12	3-6	0.80-0.90		
YXC2.4H	SrFe <sub>12</sub> O <sub>19</sub>	340	330	255	239	279	255	21.5	19.9	15 ± 1			0.80-0.90		
YXC-2.4E	SrFe <sub>12</sub> O <sub>19</sub>	320	310	239	223	318	294	19.1	17.5	15 ± 1			0.80-0.90		
YXC-2.5B	SrFe <sub>12</sub> O <sub>19</sub>	400	390	191	175	199	183	30.2	28.7	15.5 ± 1			0.80-0.90		
YXC-2.5	SrFe <sub>12</sub> O <sub>19</sub>	380	370	233	207	239	223	27.1	25.5	15.5 ± 1			0.80-0.90		
YXC-2.5H	SrFe <sub>12</sub> O <sub>19</sub>	360	350	263	247	302	279	23.9	22.3	15 ± 1			0.80-0.90		
YXC-2.5E	SrFe <sub>12</sub> O <sub>19</sub>	340	330	255	239	342	318	21.5	19.9	15 ± 1			0.80-0.90		
YXC-2.5U	SrFe <sub>12</sub> O <sub>19</sub>	320	310	239	223	398	374	19.1	17.5	15 ± 1			0.80-0.90		

## 2. YXC series Dry Pressing Barium Ferrite Material Properties.

Trade Mark	Material	Characteristics of products									Granularity			Forming methods
		Br(mT)		bHc(kA/m)		ihc(kA/m)		(BH)max(kJ/m <sup>3</sup> )		SHR %	Pellets (mm)	Coarse Powder (μm)	Fine powder	
		Typical	Min	Typical	Min	Typical	Min	Typical	Min					
YXC-1	BaFe <sub>12</sub> O <sub>19</sub>	225	220	143	139	215	199	7.96	7.56	15 ± 1	6-12	3-6	0.80-0.90	Isotropic dry press
		195	190	123	119	215	199	5.57	5.17	15 ± 1				
YXC-1R	BaFe <sub>12</sub> O <sub>19</sub>	230	225	143	139	255	239	8.36	7.96	15 ± 1	6-12	3-6	0.80-0.90	
		215	210	135	131	255	239	7.56	7.16	15 ± 1				
YXC-1A	BaFe <sub>12</sub> O <sub>19</sub>	235	230	147	143	239	223	8.75	8.36	15 ± 1	6-12	3-6	0.80-0.90	
		200	195	127	123	239	223	5.97	5.57	15 ± 1				

## 3. Procedure Summaries

There are 6 types of dry pressing ferrite powder for customers: YXC-C1, YXC-C2T, YXC-C3T, YXC-C1, YXC-C2. The procedure summaries for making magnet are as follows:

- The necessary secondary additives have been added into the powder during the grinding process. Customers shall only add proper quantity of binders and lubricants. The powder must pass through 120 mesh sieve before pressing, so as binders to be uniformly distributed for better orientation.
- Please take care of the cleaning of the equipments. Any other materials and impurity should not be mixed into the powder.
- During pressing, the pressure required is  $\geq 5000 \text{ N/cm}^2$ , and the magnetic field density is  $> 7000 \text{ Oe}$  ( $560 \text{ kA/m}$ ).
- The sintering temperature for reference is  $1220^\circ\text{C}$  to  $1270^\circ\text{C}$ . Please note that the proper sintering temperature should be defined in accordance with the status of the sintered sample pill.