

Bonded Ferrite Powder

Specifications of YXC Plastic Bonded Ferrite Magnetic Materials

YXC series Strontium plastic bonded ferrite magnetic powders are suitable for making various bonded magnets. They have good compatibility with different kinds of composite size, such powders have high filling capacity. They can be used for making different kinds of magnets by extrusion or injection molding. The strict quality control system of our plant ensures that the quality is stable and consistent.

1. Material Properties



Trade mark	Material	Characteristics of products								Forming methods	
		Br(mT)		bHc(kA/m)		iHc(kA/m)		(BH)max(kj/m ³)			Mean size (μm)
		Typical	Min	Typical	Min	Typical	Min	Typical	Min		
YXF-1	BaFe ₁₂ O ₁₉	150	140	95.5	87.5	183	167	3.98	3.58	2-4	Extrusion or Calendering
YXF-2	BaFe ₁₂ O ₁₉	180	175	119	115	183	167	5.97	5.57	1.1-1.4	
YXF-2b	BaFe ₁₂ O ₁₉	180	175	111	107	151	143	5.57	5.17	1.5-1.8	
YXF-2c	BaFe ₁₂ O ₁₉	180	175	111	107	151	143	5.57	5.17	1.8-2.1	
YXF-2S	SrFe ₁₂ O ₁₉	180	175	119	115	183	167	5.97	5.57	1.1-1.4	
YXF-2Sb	SrFe ₁₂ O ₁₉	180	175	111	107	159	143	5.57	5.17	1.5-1.8	
YXF-2Sc	SrFe ₁₂ O ₁₉	180	175	111	107	159	143	5.57	5.17	1.8-2.1	
YXF-3	SrFe ₁₂ O ₁₉	250	240	167	159	223	199	11.9	11.1	1.3-1.6	Magnetic orientation
YXF-4	SrFe ₁₂ O ₁₉	245	235	159	151	223	215	11.1	10.4	1.3-1.6	Calendering orientation
YXF-4b	SrFe ₁₂ O ₁₉	250	240	175	167	255	239	11.9	11.1	1.0-1.3	Film coating
YXF-5	BaFe ₁₂ O ₁₉	85	83	ii	ii	223	215	ii	ii	0.50-0.75	

2. Procedure Summaries

- Before production, the powders should avoid being humidified, and avoid being mixed with other material and impurity.
- The mixture ratio of binders and plasticizers should be defined according to the grade of the powder. The powder and binders and plasticizers should be mixed uniformly.
- The working temperature of extruding should be controlled between 50°C to 90°C. (calendering plate is usually between 80°C to 120°C)
- Please adjust the extruding speed, calendering speed and times, according to the property required.



Micro-Magnet Technology Co., Ltd.

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Add : F/16, Jinyuan plaza, # 57 South Hubin Road, Xiamen, CHINA 361004

Tel : (86)592 2207122 (86)592 2217138 Fax: (86)592 2207122

Email : yingli@magnets.com.cn