

# Wet pressing Ferrite Powder

## Specifications of YX Wet pressing Strontium Ferrite Magnetic Materials

YXC series strontium ferrite magnetic powders have been designed to produce all grades of hard ferrites. The users will make high quality magnets by adding the provided additives into the powders. Our highly automatic instruments and strict quality control system ensure that the quality is stable and reliable.

### a. 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							
YXS-3	BaFe <sub>12</sub> O <sub>19</sub>	390	380	159	151	163	155	28.7	27.1	12 ± 1			0.90-1.00	Anisotropic wet press	
YXS-4B	SrFe <sub>12</sub> O <sub>19</sub>	410	400	191	175	199	183	31.8	30.2	13 ± 1			0.80-0.90		
YXS-4	SrFe <sub>12</sub> O <sub>19</sub>	390	380	231	215	239	223	28.7	27.1	13 ± 1	6-12	3-6	0.80-0.90		
YXS-4H	SrFe <sub>12</sub> O <sub>19</sub>	370	360	259	243	279	263	25.5	23.9	13 ± 1			0.80-0.90		
YXS-4E	SrFe <sub>12</sub> O <sub>19</sub>	350	340	259	243	318	294	23.1	21.5	12.5 ± 1			0.80-0.90		
YXS-5B	SrFe <sub>12</sub> O <sub>19</sub>	430	420	191	175	199	183	35.0	33.4	13 ± 1			0.75-0.85		
YXS-5	SrFe <sub>12</sub> O <sub>19</sub>	410	400	231	223	239	231	31.8	30.2	13 ± 1	6-12	3-6	0.75-0.85		
YXS-5H	SrFe <sub>12</sub> O <sub>19</sub>	390	380	283	267	302	279	28.7	27.1	13 ± 1	6-12	3-6	0.75-0.85		
YXS-5E	SrFe <sub>12</sub> O <sub>19</sub>	370	360	279	263	342	318	25.5	23.9	12.5 ± 1			0.75-0.85		
YXS-5U	SrFe <sub>12</sub> O <sub>19</sub>	350	340	263	247	398	374	23.1	21.5	12.5 ± 1			0.75-0.85		
YXS-6	SrFe <sub>12</sub> O <sub>19</sub>	410	400	271	255	279	263	31.8	30.2	12.5 ± 1			0.70-0.80		
YXS-6H	SrFe <sub>12</sub> O <sub>19</sub>	400	390	294	279	318	294	30.2	28.7	13 ± 1			0.70-0.80		

\*The shrinkage rate on vertical direction is about 13±0.5%

2. In case that the granular material is purchased from our company, the particle should be dry ground to 3-5µm at first, and then be wet ground in a sand grinding mill or ball mill to less than 1µm, and then be wet pressed. If the coarse ground powder is bought, it can be wet ground directly.

1). Before grinding, the grinding mill should be cleaned thoroughly. And any materials from other factories or Impurity should not be mixed into our material.

2). Along with the powder (granular powder, and coarse ground powder), we provide the secondary additives in separated bags, users should only add it into powder during grinding according to the requirement.

3. All the necessary secondary additives have been added into the fine powders (<1µm). So there is no need to add any other material, But two to three hours' wet grinding is necessary for better distribution of particles.

4. During pressing, the moisture of slurry should be controlled between 32% to 37%, the pressure required is >4000N/cm<sup>2</sup>, and the magnetic field density is >560kA/m.

5. Due to the actual sintering temperature measured by various suppliers' instruments are not the same, we can only provide sintering temperature of 1220°C-1270°C for reference. Please note that the proper sintering temperature should be defined in accordance with the status of the sintered sample pill.

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