



## 铁基纳米晶带材 Fe-based nano-microlite ribbon

### 性能特点:

牌号:(FeCuNbSiB相当于日本牌号Finement)  
具有超微细晶粒(10-20nm)结构, 很高的初始磁导率, 高饱和磁感, 低铁损和优良的稳定性。

### Performance characteristics:

Model: (FeCuNbSiB equal Japan model Finement).  
It has ultrafine microlite (10-20 nm) structure, quite high initial permeability, high saturated magnetic induction, low iron loss and excellent stability.



### 应用领域:

- \*精密电流、电压互感器铁芯
- \*漏电开关铁芯
- \*共模、差模电感铁芯
- \*大功率中频、变压器铁芯
- \*开关电源、磁放大器铁芯
- \*尖峰抑制器及霍尔传感器铁芯

### Application fields:

- ◇ Iron core for precision current voltage mutual inductor
- ◇ Iron core for electric leakage switch
- ◇ Iron core for common mode and differential mode induction
- ◇ Iron core for high-power mid frequency and transformer
- ◇ Iron core for switching power supply, and magnetic amplifier
- ◇ Iron core for peak depressor and hall sensor

### 典型参数: 铁基纳米晶合金的物理性能

Typical parameter: the physical property of Fe-based nano-microlite alloy

牌号 Model	饱和磁感 Bs (T)	密度 ρ (g/cm <sup>3</sup> )	居里温度 Tc (°C)	晶化温度 Tx (°C)	硬度 Hv	饱和磁致伸缩系数 λ <sub>s</sub>	电阻率 Ω μ . cm	占空系数 (%)	连续工作温度 °C
Model	Saturated magnetic induction Bs(T)	Density ρ (g/cm <sup>3</sup> )	Curie temperature Tc(°C)	Crystallization temperature Tx(°C)	Hardness Hv	Saturated magnetostrictive coefficient λ <sub>s</sub>	Resistivity Ω μ . cm	Occupation efficiency (%)	Continuously working temperature °C
HX-NC	1.25	7.25	570	510	880	2.7×10 <sup>-6</sup>	130	78	-50~150



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### 铁基纳米晶合金电磁性能: (无磁场退火)

Fe-based nano-microlite alloy electromagnetism performance: (annealing without magnetic field)

牌号 Model	初始磁导率 u <sub>i</sub> (Gs/Oe)	最大磁导率 u <sub>m</sub> (Gs/Oe)	矫顽力 Hc (A/m)	剩余磁场强度 Br (T)	铁损 P (w/kg) 20K/0.5T	铁损 P (w/kg) 50K/0.3T	铁损 P (w/kg) 100K/0.3T
Model	Initial permeability u <sub>i</sub> (Gs/Oe)	Maximum Permeability u <sub>m</sub> (Gs/Oe)	Coercive force Hc(A/m)	Residual magnetic field density Br(T)	Iron loss P(w/kg) 20K/0.5T	Iron loss P(w/kg) 50K/0.3T	Iron loss P(w/kg) 100K/0.3T
HX-NC	≥10×10 <sup>4</sup>	60×10 <sup>4</sup>	<1.6	0.6~0.7	<25	<30	<150

### 铁基纳米晶带材规格:

Fe-based nano-microlite ribbon spec:

牌号 Model	带材宽度mm Width of ribbon mm	带材厚度um Thickness of ribbon um
HX-NC-003.2	3.2±0.2	28±5
HX-NC-004.5	4.5±0.2	28±5
HX-NC-005.0	5.0±0.2	28±5
HX-NC-006.5	6.5±0.3	28±5
HX-NC-008.0	8.0±0.3	28±5
HX-NC-0010	10.0±0.5	28±5
HX-NC-0012	12.0±0.5	28±5
HX-NC-0015	15.0±0.5	28±5
HX-NC-0020	20.0±0.5	28±5
HX-NC-0025	25.0±0.5	28±5
HX-NC-0030	30.0±0.5	28±5
HX-NC-0035	35.0±0.5	28±5
HX-NC-0040	40.0±0.5	28±5

△ 其它各种规格带材可根据客户订做 (2~80mm)

Other specifications of ribbon may be ordered according to requirements of clients (2~80 mm)