

Soft Magnetic Alloy Powder

*Fe-Si-Cr (High temperature sintering)

Item NO.	Particle size(um)			O ppm
	D10	D50	D90	
HTS-90	5	25	60	<3000
HLS-90	4	10	28	<3000
HTS-70	4	10	28	<3000
HLS-70	4	10	28	<3000

HLS-90/70 : Low power loss alloy powder

【 Example of preparation of testing core 】

*T core size : OD 18mm*ID 10mm

*Binder(S.C.=50%):

- 1.HTS-90, 1.6wt% resin
- 2.HLS-90, 2.4wt% resin
- 3.HTS-70, 2.4wt% resin
- 4.HLS-70, 2.4wt% resin

*Molding pressure:

- 1.HTS-90/70&HLS-70,20 ton/cm2

*Sintering Temperature:

1. HTS-90/70, 770°C/AIR/2Hr
2. HLS-90/70, 770°C/75%N2/2Hr

【 Example of magnetic data 】

Permeability : MICROTEST LCR METER &

10KHz-0.5V-12T

Pcv: iwazu & 20T/2T

Characteristics		Unit	HTS-90	HLS-90	HTS-70	HLS-70
Initial permeability	25°C	ui	90±10%	90±10%	65±10%	65±10%
Saturation magnetic flux density	H=20000 (A/m)	T	1.15	1.15	1.10	1.10
Change in permeability VS Temperature	-60°C~160°C	%	-4.3%~ 2.5%	-7.5%~ 0%	-1.1%~ 2.8%	-4.6%~ 0%
Isat	1090e	%	>27	>27	>47	>46
Core loss volume density Pcv 40mT/25°C	100kHz	kW/m ³	290	200	250	180
	500kHz		2000	1550	1700	1200
	1000kHz		5000	4100	4000	3000
Density	20T/cm ²	g/cm ³	>6.5	>6.3	>6.5	>6.3
Electrical resistivity	50V-5S	KΩ	>50	>50	>50	>50



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