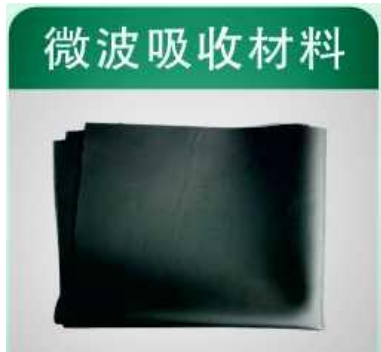
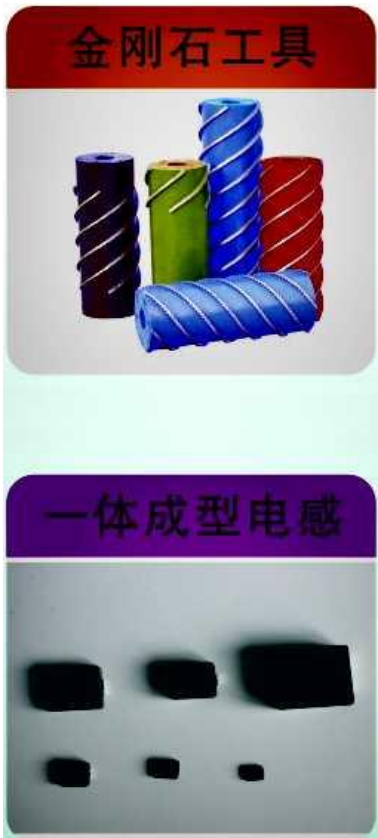


APPLICATION AREA

The carbonyl iron powder produced by our company is mainly used in metal powder injection molding parts, inductors, iron powder cores, microwave absorption materials, powder metallurgical parts, diamond tools, diamond catalysts, magnetic materials, medicine and other fields.



Specifications-JCF1									
Grade	Chemical Composition(%)				Physical Properties				
	Fe%	C%	N%	O%	Bulk Density (g/cm³)	Tap Density	Laser Particle Size		
							D10(um)	D50(um)	D90(um)
JCF1-1	≥98	≤0.80	≤0.80	≤0.4	≥2.2	≥4.0	≥0.5	≤3.5	≤9.0
JCF1-2	≥98	≤0.80	≤0.80	≤0.4	≥2.5	≥3.9	≥1.5	3.5-4.5	≤12.0
JCF1-3	≥98	≤0.80	≤0.80	≤0.4	≥2.5	≥3.8	≥2.0	4.5-7.0	≤18.0
JCF1-3Q	≥98	≤0.80	≤0.80	≤0.4	≥3.0	≥4.3	≥2.0	4.5-7.0	≤18.0
JCF1-4	≥98	≤0.80	≤0.80	≤0.4	≥2.2	≥3.5	≥2.5	7.0-8.5	≤22.0
JCF1-5	≥98	≤0.80	≤0.80	≤0.4	≥2.2	≥3.5	≥3.0	≥8.5	≤25.0

Specifications-JCF2									
Grade	Chemical Composition(%)				Physical Properties				
	Fe%	C%	N%	O%	Bulk Density (g/cm³)	Tap Density	Laser Particle Size		
							D10(um)	D50(um)	D90(um)
JCF2-1	≥99.5	≤0.05	≤0.01	≤0.3	≥2.5	≥3.8	≥0.5	2.0-4.5	≤12.0
JCF2-2	≥99.5	≤0.05	≤0.01	≤0.3	≥2.5	≥3.8	≥1.5	4.5-7.0	≤18.0
JCF2-2Q	≥99.5	≤0.05	≤0.01	≤0.3	≥3.0	≥4.3	≥1.5	4.5-7.0	≤18.0
JCF2-3	≥99.5	≤0.05	≤0.01	≤0.25	≥2.5	≥3.6	≥2.5	7.0-10.0	≤25.0
JCF2-4	≥98	≤0.40	≤0.30	≤0.3	≥2.5	≥3.6	≥1.5	4.5-7.0	≤18.0
JCF2-4Q	≥98	≤0.40	≤0.30	≤0.3	≥3.0	≥4.3	≥1.5	4.5-7.0	≤18.0
JCF2-5	≥99.5	0.4-0.6	≤0.60	≤0.4	≥2.5	≥3.8	≥1.5	4.5-7.0	≤18.0
JCF2-5Q	≥99.5	0.4-0.6	≤0.60	≤0.4	≥3.0	≥4.3	≥1.5	4.5-7.0	≤18.0

Specifications-JCF4										
Grade	Chemical Composition(%)				Magnetic Properties	Physical Properties				
	Fe%	C%	N%	O%	Perm.	Bulk Density (g/cm³)	Tap Density	Laser Particle Size		
								D10(um)	D50(um)	D90(um)
JCF4-4	≥99.5	≤0.05	≤0.01	≤0.3	29.0-32.0	≥2.5	≥3.8	≥0.5	2.0-4.5	≤12.0
JCF4-5	≥99.5	≤0.05	≤0.01	≤0.3	32.0-36.0	≥2.5	≥3.8	≥1.5	4.5-7.0	≤18.0
JCF4-6	≥99.5	≤0.05	≤0.01	≤0.25	36.0-40.0	≥2.5	≥3.6	≥2.5	7.0-10.0	≤25.0
Sample		Phosphating at 0.2%, plus 1% epoxy resin, pressed at 21t and cured at 160℃ for 1.5h								
Magnetic ring size(mm)		Single weight: 27.5g Outer diameter: 27.5								
Inductance test condition		Inner diameter: 14.5 Height:10-11 Φ0.4, N=20, 10KHz, 0.05V								

Specifications-JCF4										
Grade	Chemical Composition(%)				Magnetic Properties	Physical Properties				
	Fe%	C%	N%	O%	Perm.	AD(g/cm³)	Bulk Density (g/cm³)	Laser Particle Size		
								D10(um)	D50(um)	D90(um)
JCF4-10	≥97.5	≤0.80	≤0.80	≤0.4	10.0-12.0	≥1.0	≥2.8	≥0.6	≤1.8	≤4.0
JCF4-11	≥97.5	≤0.80	≤0.80	≤0.4	11.0-13.0	≥1.2	≥3.6	≥0.7	1.8-2.5	≤6.0
JCF4-12	≥97.5	≤0.80	≤0.80	≤0.4	11.5-14.0	≥1.6	≥3.8	≥1.0	2.5-4.5	≤10.0
JCF4-13	≥97.5	≤0.80	≤0.80	≤0.4	13.0-15.0	≥1.8	≥4.0	≥1.2	4.5-6.5	≤14.0
JCF4-14	≥97.5	≤0.80	≤0.80	≤0.4	13.5-15.5	≥2.0	≥4.0	≥2.0	6.5-7.5	≤16.0
JCF4-15	≥97.5	≤0.80	≤0.80	≤0.4	14.0-16.0	≥2.8	≥4.0	≥3.0	≥7.5	≤20.0

Specifications-JCF4L								
Grade	Magnetic Properties					Physical Properties		
	Q (peak within 0-10MHZ)	Insulation resistance (mge/100V)	V-AC (V,≤0.5 MA)	Inductance drop due to DC(10A)%	Perm.	Bulk Density (g/cm³)	Tap Density	Laser Particle Size
								D50(um)
JCF4-4L	110-130	≥1000	≥400	≤2.0	27.0-30.0	≥2.5	≥3.8	2.0-4.5
JCF4-5L	100-120	≥1000	≥400	≤2.0	30.0-34.0	≥2.5	≥3.8	4.5-7.0
JCF4-6L	90-110	≥1000	≥400	≤2.0	34.0-39.0	≥2.5	≥3.6	7.0-10.0
Sample		Add 1% epoxy resin, 21t pressing molding, 160℃ curing for 1.5h						
Magnetic ring size(mm)		Single weight: 27.5g Outer diameter: 27.5 Inner diameter: 14.5 Height: 10-11						
Inductance test condition		Φ0.4, N=20, 10KHz, 0.05V						
Quality factor test conditions		Φ0.4, N=20, 200KHz, 1V						
Insulation impedance test conditions		100V/6s						

Specifications-JCF4L								
Grade	Magnetic Properties					Physical Properties		
	Q (peak within 0-10MHZ)	Insulation resistance (mge/100V)	V-AC (V,≤0.5 MA)	Inductance drop due to DC(10A)%	Perm.	Bulk Density (g/cm³)	Tap Density	Laser Particle Size
								D50(um)
JCF4-10L	175-190	≥10000	≥1000	≤2.0	8.5-9.5	≥1.0	≥2.8	≤1.8
JCF4-11L	170-190	≥10000	≥1000	≤2.0	9.0-10.0	≥1.2	≥3.6	1.8-2.5
JCF4-12L	150-180	≥10000	≥1000	≤2.0	9.5-10.5	≥1.6	≥3.8	2.5-4.5
JCF4-13L	140-160	≥10000	≥1000	≤2.0	10.5-11.5	≥1.8	≥4.0	4.5-6.5
JCF4-14L	130-150	≥10000	≥1000	≤2.0	11.0-12.0	≥2.0	≥4.0	6.5-7.5
JCF4-15L	120-140	≥10000	≥1000	≤2.0	12.0-14.0	≥2.8	≥4.0	≥7.5

Specifications-JCN									
Grade	Chemical Composition(%)				Physical Properties				
	Ni%	Cu%	Co%	Fe%	C%	S%	O%	Bulk Density (g/cm³)	Fischer granularity
JCN-1	≥99.5	≤0.005	≤0.001	≤0.01	≤0.25	≤0.01	≤0.15	0.2-0.5	1.0-2.0
JCN-2	≥99.5	≤0.005	≤0.001	≤0.01	≤0.25	≤0.01	≤0.15	0.5-0.7	1.5-3.0
JCN-3	≥99.5	≤0.005	≤0.001	≤0.01	≤0.25	≤0.01	≤0.15	0.7-1.0	2.0-3.5
JCN-4	≥99.5	≤0.005	≤0.001	≤0.01	≤0.15	≤0.01	≤0.15	1.0-1.6	1.5-3.8
JCN-5	≥99.5	≤0.005	≤0.001	≤0.01	≤0.15	≤0.01	≤0.15	1.6-2.6	3.0~7.0
JCN-6	≥99.5	≤0.005	≤0.001	≤0.01	≤0.10	≤0.01	≤0.10	2.6-3.5	5.0-10.0
Specifications									
Grade	Chemical Composition(%)						Physical Properties		
	Fe%	C%	N%	O%	Ni	Mo	Laser Particle Size	Bulk Density (g/cm³)	Tap Density
Fe2Ni	Bal.	≤0.80	≤0.80	≤0.40	1.8-2.2	0.4-0.6	4.5-5.5	≥2.5	≥3.8
Fe4Ni	Bal.	≤0.80	≤0.80	≤0.40	3.8-4.2	0.4-0.6	4.5-5.5	≥2.5	≥3.8
Fe8Ni	Bal.	≤0.80	≤0.80	≤0.40	7.8-8.2	0.4-0.6	4.5-5.5	≥2.5	≥3.8

Specifications-JCF5									
Grade	Chemical Composition(%)				Physical Properties				
	Fe%	C%	N%	O%	Bulk Density (g/cm³)	Tap Density	Laser Particle Size		
							D10(um)	D50(um)	D90(um)
JCF5-0	≥98.0	≤0.80	≤0.80	≤0.4	≥2.2	≥4.0	≥0.5	≤3.5	≤9.0
JCF5-0G	≥98.0	≤0.80	≤0.80	≤0.4	≥2.2	≥4.0	≥0.5	≤3.5	≤9.0
JCF5-0L	≥98.0	≤0.80	≤0.80	≤0.4	≥2.2	≥4.0	≥0.5	≤3.5	≤9.0
JCF5-1	≥98.0	≤0.80	≤0.80	≤0.4	≥2.0	≥3.9	≥1.5	3.5-4.5	≤12.0
JCF5-1G	≥98.0	≤0.80	≤0.80	≤0.4	≥2.0	≥3.9	≥1.5	3.5-4.5	≤12.0
JCF5-1L	≥98.0	≤0.80	≤0.80	≤0.4	≥2.0	≥3.9	≥1.5	3.5-4.5	≤12.0
JCF5-2	≥98.0	≤0.90	≤0.80	≤0.4	≥2.5	≥3.9	≥2.0	4.5-7.0	≤18.0
JCF5-2G	≥98.0	≤0.90	≤0.80	≤0.4	≥2.5	≥3.9	≥2.0	4.5-7.0	≤18.0
JCF5-2L	≥98.0	≤0.90	≤0.80	≤0.4	≥2.5	≥3.9	≥2.0	4.5-7.0	≤18.0
JCF5-3	≥98.0	≤0.80	≤0.80	≤1.0	≥1.0	≥2.0	flake: thickness0.2-0.5um, diameter 5-10um		
JCF5-3G	≥98.0	≤0.90	≤0.80	≤1.0	≥1.0	≥2.0			
JCF5-3L	≥98.0	≤0.90	≤0.80	≤1.0	≥1.0	≥2.0			
JCF5-4	≥98.0	≤0.90	≤0.80	≤1.0	≥1.0	≥2.0	flake: thickness0.5-1.0um, diameter 5-10um		
JCF5-4G	≥98.0	≤0.90	≤0.80	≤1.0	≥1.0	≥2.0			
JCF5-4L	≥98.0	≤0.90	≤0.80	≤1.0	≥1.0	≥2.0			
JCF5-5	≥99.5	≤0.05	≤0.01	≤0.3	≥1.6	≥3.8	≥1.0	3-8	≤20
JCF5-5G	≥99.5	≤0.05	≤0.01	≤0.4	≥1.6	≥3.8	≥1.0	3-8	≤20
JCF5-5L	≥99.5	≤0.05	≤0.01	≤0.4	≥1.6	≥3.8	≥1.0	3-8	≤20