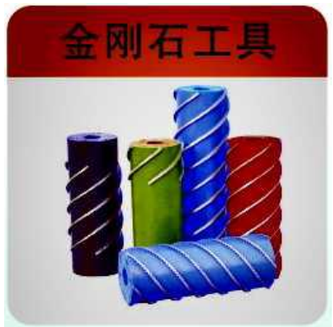
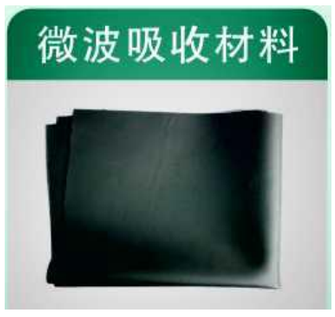
APPLICATION AREA

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.









Grade	Chemical Composition(%)				Physical Properties				
	Fe%	C%	N%	O%	AD(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
JCF1-4	≥98	≤0.90	≤0.90	≤0.4	≥2.2	≥3.5	≥2.5	7.0-8.5	≤12.0
JCF1-5	≥98	≤0.90	≤0.90	≤0.4	≥2.2	≥3.5	≥3.0	≥8.5	≤25.0

Grade	Chemical Composition(%)				Physical Properties				
	Fe%	C%	N%	O%	AD(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
JCF2-3	≥99.5	≤0.05	≤0.01	≤0.25	≥2.5	≥3.6	≥2.5	7.0-10.0	≤25.0
JCF2-4	≥99.5	≤0.40	≤0.20	≤0.3	≥2.5	≥3.6	≥1.5	4.5-10.0	≤25.0

Grade	Chemical Composition(%)						Physical Properties		
	Fe%	C%	N%	0%	Ni	Mo	Laser Particle Size	AD(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

Grade	Chemical Composition(%)				Physical Properties				
	Fe%	C%	N%	O%	AD(g/cm³)	Tap Density	Laser Particle Size		
							D10(um)	D50(um)	D90(um)
JCF5-1	≥98	≤0.80	≤0.80	≤0.4	≥2.0	≥3.9	≥1.5	3.5-4.5	≤12.0
JCF5-2	≥98	≤0.90	≤0.80	≤0.4	≥2.5	≥3.9	≥2.0	4.5-7.0	≤18.0
JCF5-3	≥98	≤0.90	≤0.80	≤1.0	≥1.0	≥2.0			
JCF5-4	≥98	≤0.90	≤0.80	≤1.0	≥1.0	≥2.0			

Grade	Chemical Composition(%)				Physical Properties				
	Fe%	C%	N%	0%	AD(g/cm³)	Tap Density	Laser Particle Size		
							D10(um)	D50(um)	D90(um)
JCF4-1	≥98	≤0.8	≤0.6	≤0.4	≥2.5	≥4.0	≥0..5	≤3.5	≤9.0
JCF4-2	≥98	≤0.8	≤0.6	≤0.4	≥2.5	≥3.9	≥1.5	3.5-4.5	≤12.0
JCF4-4	Bal.	≤0.05	≤0.01	≤0.6	≥2.5	≥3.8	≥0.5	≤4.5	≤12.0
JCF4-5	Bal.	≤0.05	≤0.01	≤0.6	≥2.5	≥3.8	≥1.5	4.7-7.0	≤18.0
JCF4-6	Bal.	≤0.05	≤0.01	≤0.6	≥2.5	≥4.0	≥2.5	7.0-10.0	≤25.0
JCF4-4P	Bal.	≤0.05	≤0.01	≤0.6	≥2.5	≥3.8	≥0.5	≤4.5	≤12.0
JCF4-5P	Bal.	≤0.05	≤0.01	≤0.6	≥2.5	≥3.8	≥1.5	4.5-7.0	≤18.0
JCF4-6P	Bal.	≤0.05	≤0.01	≤0.6	≥2.5	≥4.0	≥2.5	7.0-10.0	≤25.0

Grade	Chemical Composition(%)				Physical Properties				
	Ni%	Cu%	Co%	Fe%	C%	S%	0%	AD(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