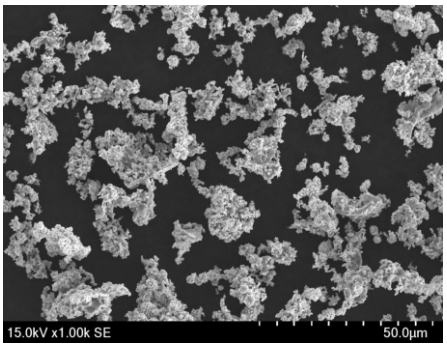
DATA SHEET SUPERFINE PRE-ALLOYED POWDER

Grade

SFN-02

SEM-VIEW



- Can replace Co, Ni
- High bending strength
- Ultra high bonding strength

Chemical Analysis (%)

	Main Component
Fe	
Ni	25.0

Physical Properties

Particle Size Distribution (μm)	D10	0.70-3.50
	D50	4.00-10.50
	D90	⩽39.00
Apparent Density (g/cm³)		0.70-1.70
Theoretical Density (g/cm³)		8.12

Sintering Physical Properties

Sintering Temp (℃)	Density (g/cm³)	Hardness (HRB)	Bending Strength (MPa)
700	7.68	90.0	1131.7
750	7.74	97.1	1271.7
800	7.90	103.7	1478.3
850	7.89	104.0	1640.0
900	7.90	104.5	1760.0
950	7.85	102.8	1785.0

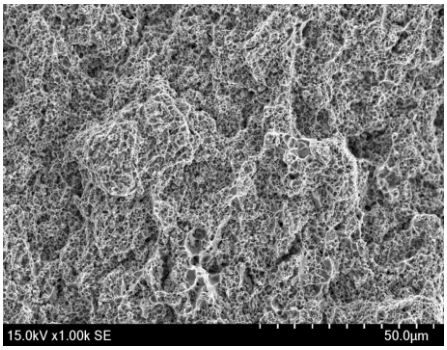
The Best Sintering Range: 800–900℃

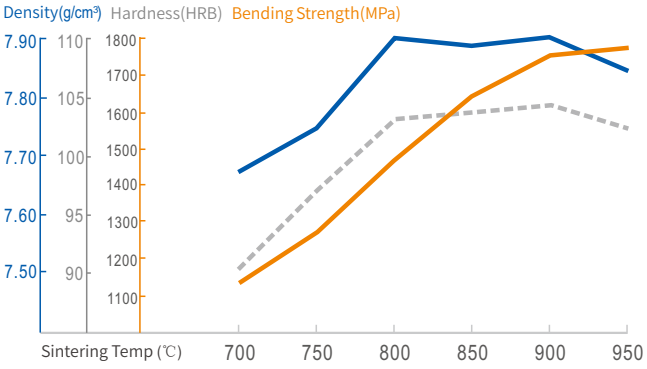
The Min.Temperature in Use: 800℃

The Max.Hardness: 105.5HRB

The Max.Bending Strength: 1890.0MPa

Sintered Shape: 900℃





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