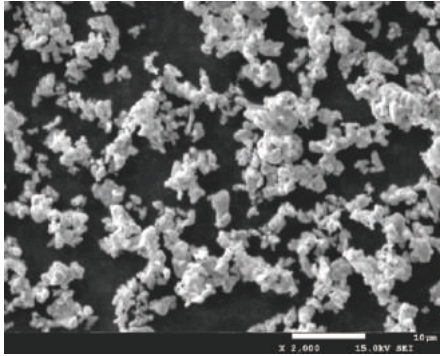


Grade

## UHF-P

### SEM-VIEW



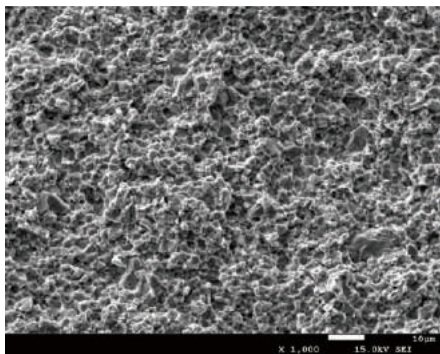
### Chemical Analysis (%)

Fe	≥96.65
O	≤1.04
C	≤0.01
P	≤2.30

### Physical Properties

Particle Size Distribution (µm)	D10	1.0-1.5
	D50	2.2-3.2
	D90	4.0-5.0
Apparent Density (g/cm³)	0.9-1.2	
Theoretical Density (g/cm³)	7.74	

Sintered Shape: 850°C



- Replacing **Carbony Iron Powder**
- High strength / High hardness
- Very high bending strength above 800°C

### Sintering Physical Properties

Sintering Temp (°C)	Density (%)	Hardness (HRB)	Bending Strength (MPa)
700	94.20	97.4	613.8
750	96.70	105.8	886.3
800	96.40	110.2	1206.8
850	96.70	110.6	1422.6
900	97.30	111.7	1445.2

The Best Sintering Range: 800-900°C

The Min. Temperature in Use: 800°C

The Max. Hardness: 112.5HRB

The Max. Bending Strength: 1571MPa

