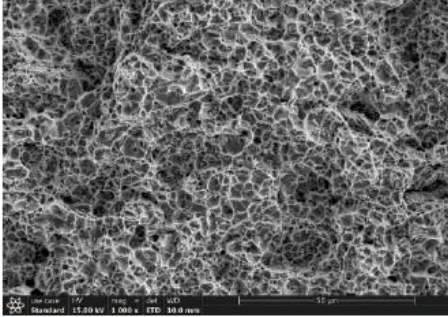


Grade: UFN01

SEM-VIEW



- Achieves densification sintering at 750°C with strength up to 1500 MPa and excellent toughness.
- Average particle size: 3-5 μm , featuring outstanding sintering activity.
- Ideal for laser welding transition layers at 750-800°C, and for matrix formulations to provide solid solution strengthening and improve diamond retention at lower temperatures.

Chemical Analysis (%)

Fe	88
Ni	12
O	<0.5

Physical Properties

Particle Size Distribution (μm)	D10	1.5-2.5
	D50	3.0-5.5
	D90	7.0-10.0
Apparent Density (g/cm^3)		1.85-2.4
Theoretical Density (g/cm^3)		7.98

Sintering Physical Properties

Sintering Temp ($^{\circ}\text{C}$)	Density (%)	Hardness (HRB)	Bending Strength (MPa)
750	96.50	85-88	1350-1500
800	97.50	90-95	1400-1600
850	97.50	90-95	1400-1600