Technical Data Sheet

Ultrafine Powder Series

Grade: UFN03

Chemical Analysis	(%)
Fe	Bal.
Ni	24.0-26.0 %
O	⩽0.55 %

- Good flowability and filling performance.
- Suitable as a laser welding transition layer material for high-temperature sintering above 850°C.
- Moderate apparent density with excellent flowability; no granulation required.

Physical Properties

Particle Size Distribution (μm)	D10	3.0-5.0	Apparent Density (g/cm³)	2.10-2.50
	D50	15.0-30.	Tap Density(g/cm³)	3.00-3.50
	D90	40.0-65.0	Theoretial Density (g/cm³)	8.10

Sintering Physical Properties 350 kgf/cm²

Sintering Temp (℃)	Density (%)	Hardness (HRB)	Bending Strength (MPa)
800	96.44	86.5	1240.0
850	96.54	94.3	1323.3
900	96.21	95.3	1365.0