

Alloy Steel Powder for High Strength Sintered Parts: JIP 21SX

Realizing high strength/high hardness without post sintering heat treatment

JFE Steel Corporation

<http://www.jfe-steel.co.jp/en/>

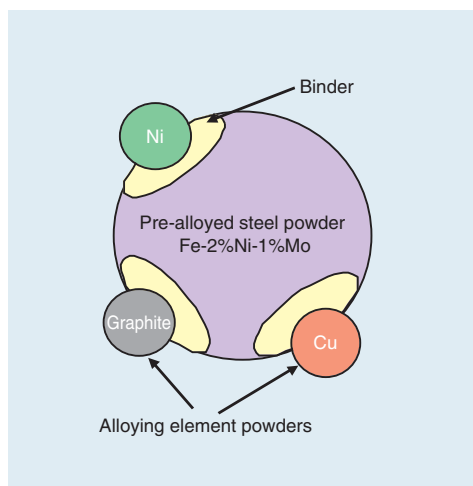


Alloyed Steel Powder for High Strength Sintered Parts: JIP21SX

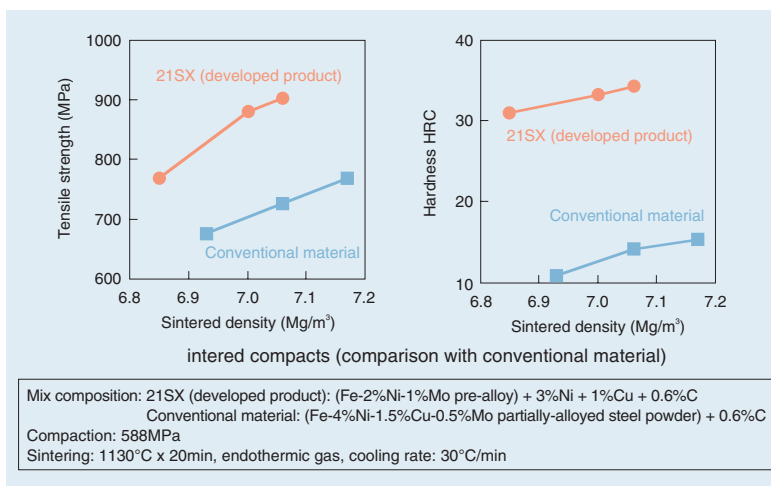
As an alloyed steel powder which satisfies both high hardenability and high density (high compressibility, high sinterability), JIP 21SX realizes the properties of high strength/high hardness with only cooling after sintering. Because heat treatment processes such as carburization can be omitted, JIP21SX contributes to reduced sintered part manufacturing costs.

Features

- 1 High strength and high hardness equal to heat-treated materials with only cooling after sintering.
- 2 High performance with general-purpose sintering furnaces.
 - High temperature furnace and special quenching equipment are not necessary.
 - Sintering is possible with endothermic gas (propane converted gas $<N_2-32\%H_2-24\%CO-0.3\%CO_2>$).
- 3 Flexibility in alloy design to meet specific requirements.



Schematic diagram of JIP 21SX



Applicable Automobile Parts

