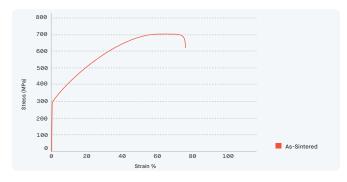
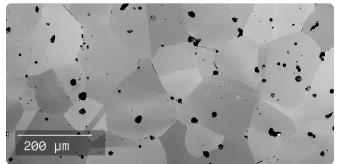


[Material Data Sheet]

## IN625 Nickel Alloy PureSinter Furnace



COMPOSITION %	
Ni	Balance
Cr	20.00 - 23.00
Мо	8.00 - 10.00
Nb	3.15 - 4.15
Fe	0.00 - 5.00
Mn	0.00 - 0.50
Si	0.00 - 0.50
AI	0.00 - 0.40
Ρ	0.00 - 0.015
С	0.10 (max)
Со	0.00 - 1.00
Ті	0.00 - 0.40
S	0.00 - 0.015



### MECHANICAL PROPERTIES IN DESKTOP METAL PURESINTER FURNACE

		Shop System ™	
	Standard	As-Sintered	
Ultimate tensile strength (MPa)	ASTM E8/E8M	695 ± 7	
Yield strength (MPa)	ASTM E8/E8M	290 ± 3	
Elongation at break (%)	ASTM E8/E8M	71.3 ± 4	
Young's modulus (GPa)	ASTM E111	204	
Hardness (HRB)	ASTM E18	79.1 ± 2	
Density (g/cc)		8.35 ± 0.02	

### ATTRIBUTES & APPLICATIONS

Excellent fatigue, thermal fatigue, oxidation & corrosion resistance	
High tensile, creep and rupture strength	

Heat-treatable and weldable material

Aerospace components (e.g. nozzles, combustion and burner systems)

Corrosive environment (e.g. marine, power generation, chemical processing applications)

Oil & gas components (e.g. deep sea drilling rig components)

	OTHER STANDARD DESIGNATIONS		
	UNS N06625		
	AMS 5666F		
	DIN NiCr22Mo9Nb		

1. YS, UTS, Elongation, and Young's modulus properties noted represent Xy orientation

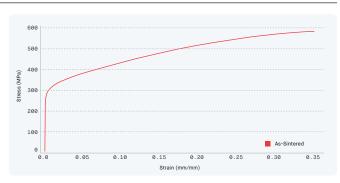
2. Listed designations are for reference purposes only. Composition and mechanical properties may vary.

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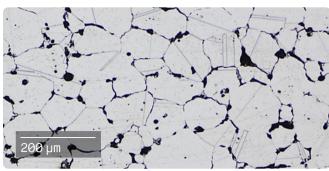


[Material Data Sheet]

# IN625 Nickel Alloy



COMPOSITION %	
Ni	Balance
Cr	20.00 - 23.00
Мо	8.00 - 10.00
Nb	3.15 - 4.15
Fe	0.00 - 5.00
Mn	0.00 - 0.50
Si	0.00 - 0.50
Al	0.00 - 0.40
Р	0.00 - 0.015
С	0.10 (max)
Co	0.00 - 1.00
Ті	0.00 - 0.40
S	0.00 - 0.015



### MECHANICAL PROPERTIES SINTERED IN THIRD-PARTY COMMERCIAL FURNACE 1

		Shop System ™	Shop System ™
	Standard	As-Sintered	Sintered and HIP <sup>2</sup>
Ultimate tensile strength – xy (MPa)	ASTM E8M	595 ± 20	661 ± 38
Yield strength – xy (MPa)	ASTM E8M	287 ± 5	303 ± 7
Elongation – xy (%)	ASTM E8M	35 ± 3	42 ± 9
Young's modulus – xy (GPa)	ASTM E111	204 ± 22	204 ± 22
Hardness (HRB)	ASTM E18	77 ± 2	82 ± 2
Density (g/cc)	ASTM B311	8.2 ± 0.05	8.43 ± 0.02

### ATTRIBUTES & APPLICATIONS

Excellent fatigue, thermal fatigue, oxidation & corrosion resistance
High tensile, creep and rupture strength
Heat-treatable and weldable material
Aprospano components (o.g. pazzlas, combustion and human systems)

Aerospace components (e.g. nozzles, combustion and burner systems)

Corrosive environment (e.g. marine, power generation, chemical processing applications)

Oil & gas components (e.g. deep sea drilling rig components)

### OTHER STANDARD DESIGNATIONS <sup>3</sup>

UNS N06625

AMS 5666F

DIN NiCr22Mo9Nb

1. Mechanical properties noted represent mean values +/- 1 standard deviation across Xy & Yz orientations for as-printed samples.

2. Samples were hot isostatic pressed at 2125°F and 14.75 ksi for 240 minutes.

3. Listed designations are for reference purposes only. Composition and mechanical properties may vary.

End-use material performance is impacted (+/-) by certain factors including but not limited to part geometry and design, application and evaluation conditions, etc.

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