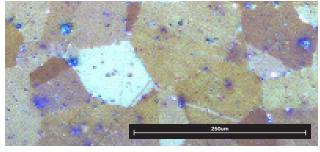
KingStarMold

Inconel 625

NICKEL SUPERALLOY

Other Designations: UNS N06625, ISO NW6625, DIN 17744

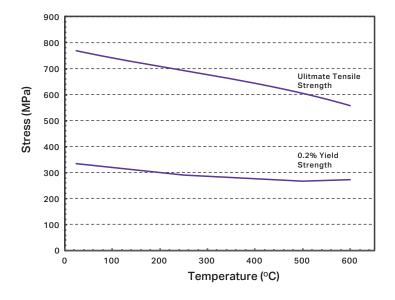
Inconel 625 is a nickel-chromium based superalloy that is highly resistant to corrosion and high temperatures. It's easy to print; allowing you to make functional prototypes and end-use parts for harsh environments. KingStar Inconel 625 meets chemical requirements of ASTM B443.



KingStar Inconel 625 As-Sintered

Inconel 625 printed on the Metal X, washed in the Wash-1, and sintered in the Sinter-1. As-Sintered microstructure captured at 100x is pictured to the right.





Physical Properties	Test	KingStar As-Sintered	Wrought AMS 55991	Composition	
Ultimate Tensile Strength [MPa]	ASTM E8	765	827	Chromium	
0.2% Yield Strength	ASTM E8	334	414	Molybdenum	
Elongation Break	ASTM E8	42	30	Iron	
Hardness	ASTM E18	7	0-19	Niobium	
Relative Density ²	ASTM B923	96.5	100	Cobalt	

1. Wrought AMS 5599 data represent minimum values, except for Hardness.

2. Relative density for Inconel 625 assumes a reference density of 8.44 g/cm2.

3. ASTM E21 elevated temperature testing was conducted by 3rd party NADCAP lab. Samples were printed in XY and gauge length was machined to size.

These data represent typical values for KingStar Inconel 625 as-sintered. KingStar samples were printed as fully dense parts with 100% infill. Hardness and density

data were tested in house, and all other data were tested and confirmed by outside sources. These representative data were tested, measured, or calculated using stan-

dard methods and are subject to change without notice. KingStar makes no warranties of any kind, express or implied.

Weight%	
20-23	
8-10	
5	
3.15-4.15	
1 max	
0.5 max	
0.5 max	
0.4 max	
0.4 max	
0.1 max	
0.015 max	
0.015 max	
bal	