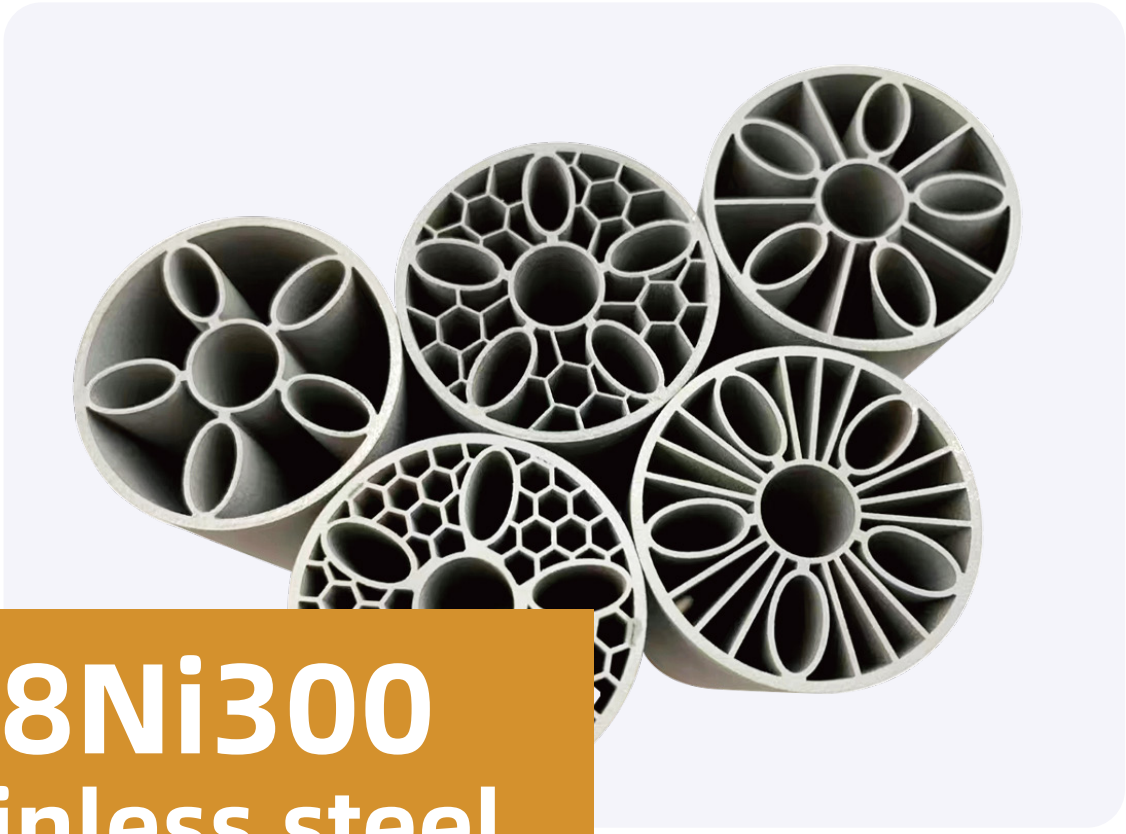
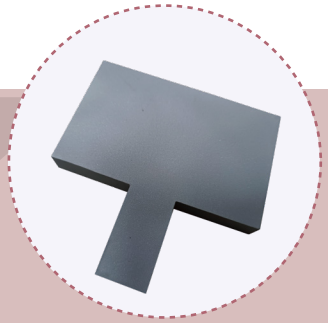
Metal 3D Printing Leader

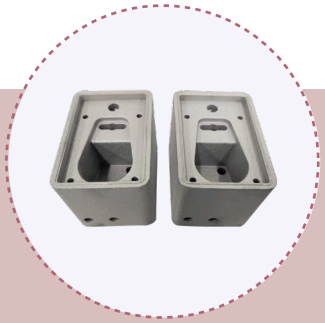
Kings 3D Printing

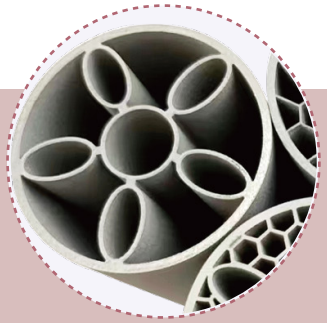


18Ni300 stainless steel

18Ni300 is characterized by high hardness and toughness. Compared with traditional steel, 18Ni300 steel has excellent weldability, thermoplasticity and processability. It has good toughness while having ultra-high strength.







Advantage

> Excellent corrosion resistance and heat treatment has no great influence on the corrosion resistance of the material
> Good dimensional stability after heat treatment
> Can reach 34-50 HRC through heat treatment

Ideal Applications

> Aerospace
> Chemical
> Defense
> Atomic Energy
> High performance Mold

Chemical Composition

Fe	Si	Ni	P	Co	C	Mo	S	Ti	O	Ai	N
Bal.	0.02	17.88	0.006	8.99	0.006	4.72	0.003	0.75	0.025	0.14	0.005

Technical Datasheet

General Properties	Density ISO3369	≥8.20g/cm^3
Mechanical Properties (As built)	Tensile Strength ISO6892-1	≥1100 MPa
	Yield Strength ISO6892-1	≥1000 MPa
	Elongation after Fracture ISO6892-1	≥10 %
	Vickers hardness ISO6507-1	
	Hardness (HRC) ISO6507-1	33-35
	Thermal conductivity at 20 °C	16 W/mK-18 W/mK
	Surface roughness Ra X, Y	5 μm-10 μm
	Surface roughness Ra Z	10 μm-15 μm
Mechanical Properties (Heat treated)	Tensile Strength ISO6892-1	≥2000 MPa
	Yield Strength ISO6892-1	≥1900 MPa
	Elongation after Fracture ISO6892-1	≥4 %
	Vickers hardness ISO6507-1	
	Hardness (HRC) ISO6507-1	51-53
	Thermal conductivity at 20 °C	16 W/mK-18 W/mK
	Surface roughness Ra X, Y	5 μm-10 μm
	Surface roughness Ra Z	5 μm-10 μm

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