



Alloy 690

1. Brief introduction:

It's a high Cr content nickel alloy with excellent resistance to many corrosive aqueous media and high-temperature atmospheres.

Its high Cr content gives it excellent resistance to aqueous corrosion by oxidizing acids (especially nitric acid) and salts, and to sulfidation at high-temperatures.

It also has high strength, good metallurgical stability and favorable fabrication characteristics.

2. Main specifications:

USA	UNS	W.Nr	China
Inconel 690	No6690	2.4642	NS 3105

3. Chemical composition under ASTM B166-08 standard:

Grade	chemical composition, %							
	Ni	Cr	Fe	Mn	C	Si	Cu	S
UNS No6690	≥58.0	27.0-31.0	7.0-11.0	≤0.5	≤0.05	≤0.5	≤0.5	≤0.015

4. Main product types:

wire, rod, forging, bar, strip, sheet/plate, tube/pipe.



5. Main produce standards:

Wire,Rod, Bar,Forging	Plate/Sheet/Strip	Tube/Pipe
ASTM B166 ASTM B564	ASTM B168	ASTM B163 ASTM B167 ASTM B829

6. Alloy690 source URL:

<https://www.hitealloy.com/product/alloy-690.html>