**Inconel 690** has outstanding resistance to oxidizing chemicals and to high-temperature oxidizing gases. And it has resistance to stress corrosion cracking in chloride-containing environments as well as to sodium hydroxide solutions. Alloy 690 is used for applications such as coal-gasification units, burners and ducts for processing sulfuric acid, furnaces for petrochemical processing, incinerators and so on.

## **Inconel 690** Specification

Grade	UNS	W.Nr
Alloy 690	N06690	2.4642

## **Inconel 690** Chemical composition

Grade	%	Ni	Cr	Fe	С	Mn	Si	Cu	S
Alloy	Min	58.0	27.0	7.0					
690	Max		31.0	11.0	0.05	0.5	0.5	0.5	0.015

## **Inconel 690** Mechanical properties: (Minimum value at 20°C)

Tensile Strength	Yield Strength	Elongation
σb/MPa	σp0.2/MPa	σ5 /%
≥580	≥260	≥30

## Inconel 690 Standard

Bar/Rod	Forging	Sheet/Strip	Pipe/Tube
ASTM B166	ASTM B564 ASTM B168		ASTM B167
			ASTM B163
			ASTM B516

Inconel 690 Size Range

Wire: Dia 0.08-12mmBar: Dia1.0-300mm

Strip(Coil): 0.2-20mm TCK x 10-300mm W
Sheet: min.0.7mm TCK x 1200mm W max.
Tube & Forging & Machine Parts: customized

• Welding wire: 0.8mm,1.0mm,1.2mm,2.0mm,2.4mm,3.2mm,3.8mm,4.0mm etc

Welding Strip: 0.4-0.7mm TCK x 25-60mm W