Inconel 600 Pipe & Tube (UNS N06600/ WNR 2.4816)

Alloy 600 is a nickel-chromium alloy which is used for applications which needs corrosion and high temperature resistance. It was designed for service temperatures from cryogenic to elevated temperatures in the range of 1090°C. It is non-magnetic and has excellent mechanical properties; under a wide range of temperatures it provides a desirable combination of high strength and good weldability.

The high nickel content in **UNS N06600** helps it to maintain a considerable resistance under reducing environment which makes it corrosion resistant to a number of organic and inorganic compounds which gives it excellent chloride-ion stress-corrosion cracking resistance and also provides excellent resistance to alkaline solutions. Its typical application includes aerospace, pulp and paper, chemical, nuclear engineering and heat treating industries.

Inconel 600 Pipe & Tube Characteristics

1. Good corrosion resistance property for oxidation, reduction, nitric and other media.
2. Good stress corrosion cracking resistance properties in both high and room temperature.
3. Good corrosion resistance of the chlorine hydride and dry chlorine.
4. Provides good mechanical properties in the condition of below zero, room temperature and high temperature.
5. Good anti-creep ruptures strength, with the suggestion of 700°C or above working environment.

Inconel 600 Chemical Composition

Alloy	%	Ni	Cr	Fe	C	Mn	Si	Cu	P	S
ASTM B163 N06600	Min.	72.0	14.0	6.0						
	Max.	17.0	10.0	0.15	1.0	0.5		0.5	0.015	

Density and Melting Point

Density / Specific Gravity	8.47kg/dm³
Melting Point	1370-1425°C

Inconel 600 Standard Specifications

Pipe Smls	Pipe Welded	Tube Seamless	Tube Welded	Sheet/Plate	Bar	Forging	Fitting	Wire
ASTM B167	ASTM B517	ASTM B163	ASTM B516	ASTM B168 DIN 17550	ASTM B166 DIN 17552	ASTM B564	ASTM B366	

Inconel 601 Mechanical Properties

Aolly status	Tensile strength ksi Mpa	Yield strength R P 0. 2 ksi Mpa	Elongation %	Brinell Hardness HB
Annealing treatment	80 (550)	35 (240)	30	≤195

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