STAINLESS STEEL

ALLOY 600

(UNS N06600)

TUBING APPLICATIONS

Alloy 600 is a nickel-chromium alloy with good oxidation resistance at higher temperatures, ranging from cryogenic to 2000°F.

Alloy 600 has great workability, wedlability and high strength. The high nickel content makes it resistant to many organic and inorganic compounds and offers good corrosion resistance in reducing conditions.

AVAILABLE TUBE PRODUCT FORMS

STRAIGHT

SEAMLESS

TYPICAL MANUFACTURING SPECIFICATIONS

ATSM B163 AMS 4480

ATSM B167 BS 3074

Also individual customer specifications.

TYPICAL APPLICATIONS

Heat Exchangers

Thermocouples

Control and Instrumentation Tubes

INDUSTRIES PREDOMINANTLY USING THIS GRADE

CHEMICAL PROCESSES

NUCLEAR AND POWER

TECHNICAL DATA

MECHANICAL PROPERTIES

Temper	Annealed	
Tensile Rm	110	ksi (min)
Tensile Rm	738	MPa (min)
R.p. 0.2% Yield	37	ksi (min)
R.p. 0.2% Yield	255	MPa (min)
Elongation (2” or 4D gl)	45	% (min)

PHYSICAL PROPERTIES (Room Temperature)

Specific Heat (0-100°C)	460	J.kg-1.°K-1
Thermal Conductivity	14.8	W.m -1.°K-1
Thermal Expansion	12.4	mm / m / °C
Modulus Elasticity	207	GPa
Electrical Resistivity	10.3	µohm / cm
Density	8.42	g / cm3

CHEMICAL COMPOSITION (% by weight)

Element	Min	Max
C	-	0.15
Si	-	0.5
Mn	-	1
S	-	0.015
Cr	14	17
Cu	-	0.5
Fe	6	10
Ni	72	-

TUBACEX AMERICA

TUBACEX GROUP