STAINLESS STEEL

ALLOY C22

(UNS N06022)

TUBING APPLICATIONS

Alloy C22 is a versatile austenitic nickel-molybdenum-tungsten alloy with enhanced resistance to pitting, crevice corrosion and stress corrosion cracking.

This nickel alloy offers optimum resistance to environments where reducing and oxidizing conditions are encountered in process streams.

AVAILABLE TUBE PRODUCT FORMS

STRAIGHT, COILED, SEAMLESS
SEAM WELDED AND COLD DRAWN
SEAM WELDED, COLD DRAWN AND ANNEALED

TYPICAL MANUFACTURING SPECIFICATIONS

ATSM B622
ATSM B626

Also individual customer specifications.

TYPICAL APPLICATIONS

Processing Equipment
Heat Exchangers
Hydraulic Systems
Vessels

INDUSTRIES PREDOMINANTLY USING THIS GRADE

CHEMICAL PROCESSES
OIL AND GAS

TECHNICAL DATA

MECHANICAL PROPERTIES

Temper	Annealed	
Tensile Rm	110	ksi (min)
Tensile Rm	765	MPa (min)
R.p. 0.2% Yield	52	ksi (min)
R.p. 0.2% Yield	359	MPa (min)
Elongation (2” or 4D gl)	25	% (min)

PHYSICAL PROPERTIES (Room Temperature)

Specific Heat (0-100°C)	414	J.kg-1.°K-1
Thermal Conductivity	10.2	W.m -1.°K-1
Thermal Expansion	6.9	mm / m / °C
Modulus Elasticity	206	GPa
Electrical Resistivity	4.48	µohm / cm
Density	8.69	g / cm3

CHEMICAL COMPOSITION (% by weight)

Element	Min	Max
C	0.17	0.25
Si	-	0.4
Mn	0.40	0.7
P	-	0.045
S	-	0.045
Cr	-	0.4
Cu	-	0.5
Mo	-	0.1
Ni	-	0.4

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