

Inconel 600

Nickel Alloys | UNS: N06600 | EN: 2.4816

Solid solution nickel-chromium-iron alloy with high resistance to oxidation, carburisation and chloride ion stress corrosion cracking at elevated temperature.

Available Forms & Sizes

Form	Size Range
Plates	1.5 - 100 mm thk, up to 2500 mm wide
Seamless Pipes & Tubes	1/2" - 24" NB, SCH 5S - SCH 160
Round Bars	6 - 500 mm dia
Flanges	1/2" - 48", 150# - 2500#
Fittings	1/2" - 48", SCH 10S - SCH 160

Chemical Composition (%)

Element	Min	Max
Ni	72.0	-
Cr	14.0	17.0
Fe	6.0	10.0
C	-	0.15

Mechanical Properties

Property	Value	Unit
Yield Strength (0.2%)	240 min	MPa
Tensile Strength	550 min	MPa
Elongation	30 min	%

Physical Properties

Property	Value	Unit
Density	8.47	g/cm3
Max Service Temperature	1090	C

Standards

ASTM B168, ASTM B167, ASTM B166

Equivalent Grades

2.4816, N06600, Alloy 600, NiCr15Fe



Typical Applications

- Furnace muffles and retorts
- Heat treatment fixtures
- Caustic soda evaporators
- Nuclear steam generator tubing

Industries Served

Heat Treatment, Nuclear, Chemical Processing