NICKEL ALLOYS

Advanced Materials. Engineered for Performance.

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.



Stock status: Mill indent - Typical lead time: 4 - 8 weeks mill indent

Key features

- Oxidation resistant to 1090 C
- Excellent in caustic and high purity water

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

Industries served

Heat Treatment, Nuclear, Chemical Processing

Typical applications

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

Live datasheet