

Inconel 600 is a nickel-chromium alloy known for its excellent resistance to high-temperature oxidation, corrosion, and stress corrosion cracking. It is a versatile material widely used in various industries that require superior performance in extreme environments.

### Chemical Composition

Element	Maximum Unless Range is Specified
Silicon	.50
Carbon	.15
Sulfur	.015
Manganese	1.00
Chromium	14.00-17.00
Copper	.50
Nickel	72.0
Iron	6.0-10.0

### Physical Properties

Property	Maximum Unless Range is Specified
Density,lbs/in <sup>3</sup>	0.304
Specific Heat,BTU/lb-°F	0.104
Melting Point (Deg°F )	2470-2575
Electrical Resistivity, Ohm-circ mil/ft	620
Thermal Conductivity ,Btu•ft/ft <sup>2</sup> •hr•°F	8.6
Modules of Elasticity ,ksi	30,000

### Mechanical Properties

Property	Maximum Unless Range is Specified
Ultimate Tensile Strength,ksi	93
Yield Strength,ksi	37
Elongation in 2"	20%
Hardness, Rockwell C	30-40

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.