

Inconel 600 Nickel Alloy Material Grade

Principal Design Features: A general purpose structural engineering material for use at high temperatures where strength, stability, and durability are important. The alloy also has very good corrosion resistance. When considering this alloy, also investigate Alloy 690, which doubles the chromium content, to improve stress corrosion cracking capabilities.

Partial List of Applications: Heaters, heat exchangers, chemical process equipment, heat treat furnace components and fixtures and gas turbine components.

Alloy Inconel 600 Chemistry Data

Carbon	0.15 max
Chromium	14 - 17
Copper	0.5 max
Iron	6 - 10
Manganese	1 max
Nickel	Balance
Silicon	0.5 max
Sulphur	0.015 max

Alloy Inconel 600 Physical Data

Density (lb / cu. in.)	0.306
Specific Gravity	8.47
Specific Heat (Btu/lb/Deg F - [32-212 Deg F])	0.106
Electrical Resistivity (microhm-cm (at 68 Deg F))	620
Melting Point (Deg F)	2550
Thermal Conductivity	103
Mean Coeff Thermal Expansion	5.8
Magnetic Permeability	1.01
Modulus of Elasticity Tension	31.1
Reduction of Area	60

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