



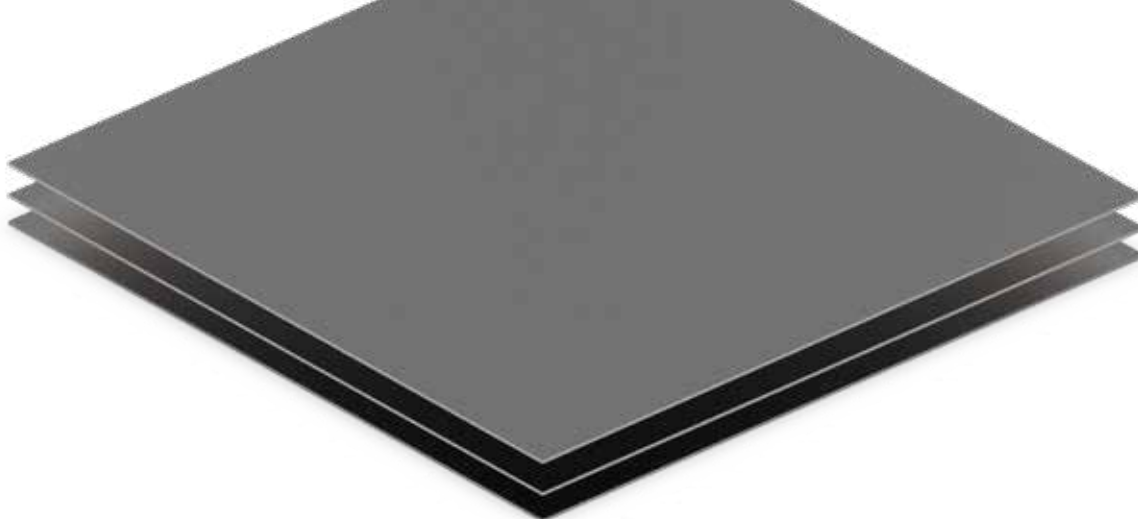
Canada  
SPECIALSTEEL INC

S8

S1

# Alloy 600

SHEET AND PLATE



## Applications

### INDUSTRIAL

Industrial Furnaces, Reaction Vessels and Heat Exchanger, High Temperature Sensors, ect.

## Features

- Good resistance against oxidation, carbonization and nitriding
- Good resistance to stress corrosion in room and increased temperatures
- Good resistance against dry chlorine and hydrogen chloride
- Good mechanical properties at both low and high temperatures

## Standard

ASTM B168

## Material

Alloy 600 / UNS N06600 / 2.4816

## Surface

Bright annealed / annealed

## Package

Wooden case

## Chemical composition (Nominal) %

Grade	Ni	Cr	Fe	Mn	C	Cu	Si	S
Alloy 600	72.0 min	14.0-17.0	6.0-10.0	1.0 max	0.15 max	0.5 max	0.5 max	0.015 max

## Physical properties

Density 8.5 g/cm<sup>3</sup> at 20°C

## Mechanical properties

Heat Treatment	Tensile Strength, min, psi (MPa)	Yield Strength, min. (0.2% offset), min, psi (MPa)	Elongation in 2 in. or 50 mm (or 4 D), min, %
Hot-Rolled Plate: Annealed	80 000 (550)	35 000 (240)	30
Hot-Rolled Plate: As-rolled	85 000 (586)	35 000 (240)	30
Hot-Rolled Sheet: Annealed	80 000 (550)	35 000 (240)	30
Cold-Rolled Sheet: Annealed	80 000 (550)	35 000 (240)	30

## Heat treatment

### Soft Annealing

Soft annealing of Alloy 600 should take place in the temperature range between 920 and 1,000°C (1,688 and 1,832°F).

### Solution Annealing

Solution annealing of Alloy 600 H should take place at temperatures between 1,080 and 1,150°C (1,976 and 2,102°F)