

# 310S

## Heat Resistant Grade

### DESCRIPTION:

310S is a high-alloyed austenitic stainless steel designed for elevated temperature applications.

Some of the beneficial characteristics include good corrosion resistance, high strength in elevated temperatures, and excellent oxidation resistance. With a high nickel and chromium content, this alloy is superior to 304 or 309 in most applications. 310S has good welding characteristics.

### APPLICATIONS:

- Furnace parts
- Furnace Conveyors
- Heat Exchangers
- Welding Filler wire

### CHEMICAL COMPOSITION:

Carbon	0.08 max
Chromium	24.0 – 26.0
Nickel	19.0 – 22.0
Manganese	2.0 max
Silicon	1.0 max
Phosphorus	0.045 max

### MECHANICAL PROPERTIES:

Yield Strength	30 KSI min
Tensile Strength	75 KSI min
Elongation	40%
Hardness	95 Rockwell B

STAINLESS STRUCTURALS CAN PRODUCE THIS ALLOY IN BEAMS, CHANNELS, ANGLES, TEES AND CUSTOM SHAPES.

#### Disclaimer:

The information on the stainless alloy data sheets are accurate to the best of our knowledge, but are intended for general information only. Applications suggested for the different alloys are listed only to help our customers make their own decisions. These are neither guarantees nor warranties on material uses. Data referring to chemical composition and mechanical properties are industry norms at the typical state of the alloys tested. These properties can change in different environments, temperatures, applications and so forth. Stainless Structural assumes no responsibility or liability for the information given.

