

347

Austenitic Grade

DESCRIPTION:

347 stainless steel is stabilized with columbium, which eliminates carbide precipitation. 347 is similar to 321 but has slightly better corrosion resistance in oxidizing environments. 347 has very good intergranular corrosion resistance when welded. Like 321, this alloy is generally used in high-temperature environments.

APPLICATIONS:

- Heat Exchangers
- Chemical Processing
- Oil Refineries

CHEMICAL COMPOSITION:

Carbon	0.04 -0.08
Chromium	17.0 – 19.0
Nickel	9.0 – 13.0
Manganese	2.0 max
Silicon	0.75 max
Phosphorus	0.045 max

MECHANICAL PROPERTIES:

Yield Strength	30 KSI min
Tensile Strength	75 KSI min
Elongatin	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.

