

309

Heat Resistant Grade

DESCRIPTION:

309 stainless steel is an austenitic grade with high chromium content and low nickel content that is generally used in elevated temperature applications.

Some of the beneficial characteristics of 309 stainless is its high corrosion resistance, heat resistance, and resistance to oxidation.

309 has good fabrication and weldability characteristics.

APPLICATIONS:

- High Heat applications
- Heat Exchangers and Boilers
- Aircraft and Auto parts
- Refineries
- Chemical Processing

CHEMICAL COMPOSITION:

Carbon	0.08 max
Chromium	22.0 – 24.0
Nickel	12.0 – 15.0
Manganese	2.0 max
Silicon	0.75 max
Phosphorus	0.045 max

MECHANICAL PROPERTIES:

Yield Strength	30 KSI min
Tensile Strength	75 KSI min
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.

