

314

Heat Resistant Grade

DESCRIPTION:

314 stainless steel is an austenitic, heat resistant grade that is very similar to type 310S.

The difference is that 314 has a higher level of silicon, which improves oxidation resistance at elevated temperatures.

Alloy 314 has the best high-temperature resistance capabilities of any chromium nickel stainless grades.

APPLICATIONS:

- High-Temperature applications
- Furnace parts
- Furnace conveyor systems
- Heat Exchangers

CHEMICAL COMPOSITION:

Carbon	0.25 max
Chromium	23.0 – 26.0
Nickel	19.0 – 22.0
Manganese	2.0 max
Silicon	1.50 – 3.00
Phosphorus	0.045 max

MECHANICAL PROPERTIES:

Yield Strength	45 KSI min
Tensile Strength	95 KSI min
Elongation	40%
Hardness	85 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.

