

304H

Austenitic Grade

DESCRIPTION:

304H grade is a modification of the most widely used 18/8 stainless. 304H has a controlled carbon content (carbon of .04 to .10 %) which increases its strength at elevated temperatures.

304H has a corrosion resistance similar to 304/304L. This austenitic grade is subject to carbide precipitation in weld zones due to its higher carbon content.

APPLICATIONS:

- Oil and Gas
- Boilers and Heat Exchangers
- Power and Industrial Plants

CHEMICAL COMPOSITION:

Carbon	0.04 – 0.10
Chromium	18.0 – 20.0
Nickel	8.0 – 10.5
Manganese	2.0 max
Silicon	0.75 max
Nitrogen	0.10 max
Phosphorus	0.045 max

MECHANICAL PROPERTIES:

Yield Strength	30 KSI min
Tensile Strength	75 KSI min
Elongatin	40%
Hardness	92 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.

