

904/L

Austenitic Grade

DESCRIPTION:

904L is a super-austenitic stainless that provides moderate to high corrosion resistance in many different environments.

904L has very good weldability but this alloy does not machine well. With a high nickel and chromium content, this grade also has strong stress corrosion cracking, pitting, and corrosion resistance. This alloy was originally designed for uses in chemical processing applications.

APPLICATIONS:

- Chemical Processing
- Oil and Gas
- Pulp and Paper
- Pharmaceuticals
- Heat Exchangers and Condensers

CHEMICAL COMPOSITION:

Carbon	0.02 max
Chromium	19.0 – 23.0
Nickel	23.0 – 28.0
Manganese	2.0 max
Silicon	1.0 max
Phosphorus	0.045 max
Molybdenum	4.0 – 5.0

MECHANICAL PROPERTIES:

Yield Strength	31 KSI min
Tensile Strength	71 KSI min
Elongation	36%
Hardness	70-90 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.

