

316/L

Austenitic Grade

DESCRIPTION:

316/L is the lower carbon variation of 316 (max carbon of .03) stainless steel. This austenitic grade provides higher corrosion and pitting resistance than type 304/304L because of its higher nickel and molybdenum content. 316/L also has higher strength at elevated temperatures and it avoids carbide precipitation due to welding. 316/L has excellent weldability but is more difficult to form and machine than type 304. 316/L has slightly lower mechanical properties than straight 316 grade.

APPLICATIONS:

- Chemical Processing
- Food Processing / Packaging
- Water/Wastewater and Marine
- Pulp and Paper
- Construction

CHEMICAL COMPOSITION:

Carbon	0.03 max
Chromium	16.0 – 18.0
Nickel	10.0 – 14.0
Manganese	2.0 max
Silicon	0.75 max
Nitrogen	0.10 max
Phosphorus	0.045 max

*MECHANICAL PROPERTIES:

Yield Strength	25 KSI min
Tensile Strength	70 KSI min
Elongatin	40%
Hardness	95 Rockwell B

* Laser Fused Profiles (ASTM A1069) are produced to meet a 35 KSI Min Yield or higher, depending on strength grade specified.

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.

