

2101

Duplex Grade

DESCRIPTION:

2101 is a lean duplex stainless steel that was developed for general-purpose uses where superior strength and stress-corrosion cracking is required over 300 series stainless steels. 2101's corrosion resistance is superior to 304/L and comparable to 316/L. Some of the beneficial characteristics of 2101 duplex include its high strength, corrosion and pitting resistance, ease of fabrication, weldability, and cost efficiency.

APPLICATIONS:

- Water and Wastewater Treatment
- Food and Beverage Processing
- Chemical Processing
- Building and Construction
- Desalination processes

CHEMICAL COMPOSITION:

Carbon	0.03
Chromium	21.0 – 22.0
Nickel	1.35 – 1.70
Manganese	4.0 – 6.0
Silicon	1.0 max
Nitrogen	0.20 – 0.25
Phosphorus	0.04 max
Molybdenum	0.10 – 0.80

MECHANICAL PROPERTIES:

Yield Strength	65 KSI min
Tensile Strength	94 KSI min
Elongatin	30%
Hardness	290 Brinell Max

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.

