

305

Austenitic Grade

DESCRIPTION:

305 grade is an austenitic stainless grade that has a slightly higher nickel content that decreases work hardening. The corrosion resistance of 305 is similar to 304.

This alloy is mainly used in deep drawing applications and cannot be hardened by heat treatment. 305 is very formable but when welded it can have hot cracking at the seams.

APPLICATIONS:

- Cold Drawing applications
- Electronic parts
- Deep Drawn parts

CHEMICAL COMPOSITION:

Carbon	0.12 max
Chromium	17.0 – 19.0
Nickel	10.0 – 13.0
Manganese	2.0 max
Silicon	1.0 max
Phosphorus	0.04 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.

