321 Austenitic Grade

DESCRIPTION:

321 is an austenitic stainless steel that is similar to 304 in corrosion resistance and weldability. 321 is harder to form than most austenitic grades because of its spring back effect. The benefit of 321 is that it has added titanium of five times the carbon content, which prevents or reduces carbide precipitation during welding. This alloy is generally used in high-temperature applications.

APPLICATIONS:

- High Temperature applications
- Chemical Processing
- Aircraft engines
- Oil and Gas
- Expansion joints

CHEMICAL COMPOSITION:

Carbon	*0.08 max*
Chromium	*17.0 – 19.0*
Nickel	*9.0 – 12.0*
Titanium	*0.70 max*
Manganese	*2.0 max*
Silicon	*0.75 max*
Phosphorus	*0.04 max*

MECHANICAL PROPERTIES:

Yield Strength	*30 KSI min*
Tensile Strength	*75 KSI min*
Elongatin	*40%*
Hardness	*95 Rockwell B*

STAINLESS STRUCTURALS CAN PRODUCE THIS ALLOY IN BEAMS, CHANNELS, ANGLES, TEES AND CUSTOM SHAPES.

Stainless Structurals America: 575 Conroe Park West Drive Conroe, Texas 77303 - t +1.936.538.7600
info@stainless-structurals.com - www.stainless-structurals.com