

AL6XN

Austenitic Grade

DESCRIPTION:

AL6XN is a super-austenitic stainless steel that is low-carbon and nitrogen bearing for high purity. This alloy was originally designed as a seawater resistant material.

AL6XN has also been found to be useful in many corrosive environments.

Because of AL6XN's high strength and corrosion resistance, this alloy is a better choice than duplex stainless. It is also more cost effective than nickel alloys.

APPLICATIONS:

- Marine applications
- Offshore Oil and Gas
- Chemical Processing
- Heat Exchangers
- Desalination processes

CHEMICAL COMPOSITION:

Carbon	0.03 max
Chromium	20.0 – 22.0
Nickel	23.5 – 25.5
Manganese	2.0 max
Silicon	1.0 max
Nitrogen	0.18 – 0.25
Phosphorus	0.04 max
Molybdenum	6.0 – 7.0

MECHANICAL PROPERTIES:

Yield Strength	45 KSI min
Tensile Strength	95 KSI min
Elongatin	30%
Hardness	88 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.

