

# 2507

Duplex Grade

## DESCRIPTION:

2507 is a super duplex grade of stainless steel. It contains 25% chromium, 4% molybdenum and 7% nickel to provide excellent strength and corrosion resistance as well as excellent resistance to pitting and crevice. 2507 should not be used in applications above 300°C. Some of the beneficial characteristics of 2507 include high impact strength, resistance to chloride stress corrosion cracking, and resistance to intergranular corrosion.

## APPLICATIONS:

- Chemical Processing
- Heat Exchangers
- Oil and Gas
- Desalination and Water processes
- Power and Energy systems

## CHEMICAL COMPOSITION:

Carbon	0.03 max
Chromium	24.0 – 26.0
Nickel	6.0 – 8.0
Manganese	1.2 max
Silicon	0.80 max
Phosphorus	0.035 max
Molybdenum	3.0 – 3.5

## MECHANICAL PROPERTIES:

Yield Strength	80 KSI min
Tensile Strength	116 KSI min
Elongation	15%
Hardness	32 Rockwell C

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.

