



## Duplex S32750

Henan Sheng He Pipe Industry Co., Ltd., have an experience spanning for over ten years, producing and supplying best-in-class products, minimize cost by getting manufacturing processes under one roof and delivering consignments on a daily basis only because of a diligent and dedicated team. We are manufacturers, suppliers and exporters of Duplex S32750 material.

### **Super Duplex 2507**

- UNS S32750, F53
- ASTM A 240, A790, A815, A182, A 276, A 476, A789
- EN 1.4410

Other common names SAF 2507®

### **Duplex 2507 Available Formats**

Sheng He Pipe Industry offers Duplex 2507 in a variety of forms, including:

- Pipe & Welded pipe
- Pipe fittings
- Seamless tube & Welded tube
- Flanges
- Bar
- Sheet
- Wire
- Plate
- forgings
- Weld Rod

### **Duplex 2507 Overview**

Duplex 2507 is a super duplex stainless steel designed for applications which demand exceptional strength and corrosion resistance. Alloy 2507 has 25% chromium, 4% molybdenum, and 7% nickel. This high molybdenum, chromium and nitrogen content results in excellent resistance to chloride pitting and crevice corrosion attack and the duplex structure provides 2507 with exceptional resistance to chloride stress corrosion cracking.

Usage of Duplex 2507 should be limited to applications below 600° F (316° C). Extended elevated temperature exposure can reduce both the toughness and corrosion resistance of alloy 2507.



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Duplex 2507 possesses excellent mechanical properties. Often a light gauge of 2507 material can be used to achieve the same design strength of a thicker nickel alloy. The resulting savings in weight can dramatically reduce the overall cost of fabrication.

## What are the characteristics of Duplex 2507?

- High resistance to chloride stress corrosion cracking
- High Strength
- Superior resistance to chloride pitting and crevice corrosion
- Good general corrosion resistance
- Suggested for applications up to 600° F
- Low rate of thermal expansion
- Combination of properties given by austenitic and ferritic structure
- Good weldability and workability

## In what applications is Duplex 2507 used?

- Desalination Equipment
- Chemical process pressure vessels, piping and heat exchangers
- Marine Applications
- Flue Gas Scrubbing Equipment
- Pulp & Paper Mill Equipment
- Offshore Oil production/technology
- Oil and gas industry equipment

## ASTM Specifications

ASTM (American Society for Testing and Materials) for various products made out of Duplex 2507 are as follow

Pipe Seamless	Pipe Welded	Tube Seamless	Tube Welded	Sheet/Plate	Bar	Forging	Fitting	Wire
A790	A790	A789	A789	A240	A27 6	A182	A815	–



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### **Chemical Composition, %**

<b>Cr</b>	<b>Ni</b>	<b>Mo</b>	<b>C</b>	<b>N</b>	<b>Mn</b>
24.0-26.0	6.0-8.0	3.0-5.0	0.030 Max	.24-.32	1.20 Max
<b>Si</b>	<b>Cu</b>	<b>P</b>	<b>S</b>	<b>Fe</b>	
0.80 Max	0.50 Max	0.035 Max	0.020 Max	Balance	

### **Specified Tensile Properties, Plate ASTM A240**

<b>Ultimate Tensile Strength, ksi Minimum</b>	<b>.2% Yield Strength, ksi Minimum</b>	<b>% Elongation Min.</b>	
116	80	15	310