



## Duplex S31803

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 S31803 material.

### Duplex S31803

- UNS S31803, F51,
- ASTM A 182, A 240, A 276, A 479, A 789, A 790, A 815
- ASME SA 182, SA 240, SA 479, SA 789
- Norsok MDS D45 Grade F51, EN 1.4462
- NACE MR0175

### Duplex S31803 Available Formats

Sheng He Pipe Industry offers Duplex S31803 in a variety of forms, including:

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

### What are the characteristics of Duplex S31803?

- High resistance to chloride stress corrosion cracking
- Resistance to chloride pitting and crevice corrosion
- Good general corrosion resistance
- Good sulfide stress corrosion resistance
- High Strength
- Good weldability and workability

### In what applications is Duplex S31803 used?

- Chemical process vessels, piping and heat exchangers
- Pulp mill digesters, bleach washers, chip pre-steaming vessels



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- Food processing equipment
- Oil field piping and heat exchangers
- Flue gas desulfurization equipment

## ASTM Specifications

ASTM (American Society for Testing and Materials) for various products made out of Duplex S31803 are as follow

Pipe Seamle ss	Pipe Welded	Tube Seamle ss	Tube Welded	Sheet/P late	Bar	Forging	Fitting	Wire
A790	A790	A789	A789	A240	A276	A182	A815	—

## Chemical Composition (average %)

C	Si	Mn	Cr	Mo	Ni	N
0.025	0.60	1.30	22.60	3.20	5.80	0.17

## Standards

EN / DIN	ASTM	UNS	AFNOR
<1.4462> X2CrNiMoN22-5-3	A240	S31803	Z2CND22-5 Az

## Specified Tensile Properties ASTM A240

Ultimate Tensile Strength, ksi Minimum	.2% Yield Strength, ksi Minimum	Hardness Max.
95	65	31 Rockwell C