



HENAN SHENG HE PIPE INDUSTRY CO., LTD

WEB: [WWW.SHPIPEINDUSTRY.COM](http://WWW.SHPIPEINDUSTRY.COM)

TEL/WHATSAPP: 0086 - 18837185745

## 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 Seamless	Pipe Welded	Tube Seamless	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