HENAN SHENG HE PIPE INDUSTRY CO., LTD
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TEL/WHATSAPP: 0086 - 18837185745

Duplex S32760

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 S32760 material.

SPECIFICATIONS

UNS Number:S32760
Werkstoff Number:1.4501
Standards:ASTM A182, A240, A276, A314, A473, A479, A815, A790, A928.
Other:F55
Super Duplex UNS S32760 is among the most common super duplex grade in the market. UNS S32760 is a duplex especially designed for service in aggressive chloride-containing environments and has additions of W and Cu compared to UNS S32750. It has very good resistance to localized corrosion and stress corrosion cracking in combination with high mechanical strength.

Applications

The main applications are for details with special requirements for high corrosion resistance.

UNS S32760 is characterized by:

- High resistance to stress corrosion cracking in halide containing environments.
- High resistance to pitting and crevice corrosion.
- High resistance to general corrosion.
- High mechanical strength.
- High resistance to erosion corrosion and corrosion fatigue.

It is widely used in oil & gas, hydropower, pressure vessels, pulp & paper, structural components and chemical tankers.

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ASTM Specifications

ASTM (American Society for Testing and Materials) for various products made out of Duplex S32760 are as follow

Pipe Seamless	Pipe Welded	Tube Seamless	Tube Welded	Sheet/Plate	Bar	Forging	Fitting	Wire
A790	A790	A789	A789	A240	A276	A182	A815	–

Chemical Composition (average %)

C	Si	Mn	Cr	Mo	Ni	W	Cu	N	PREN
0.020	0.25	0.55	25.20	3.70	7.00	0.65	0.60	0.22	Min. 40

MECHANICAL & PHYSICAL PROPERTIES

Mechanical & Physical Properties	20 °C	100 °C	150 °C	200 °C	250 °C
Ultimate Tensile Strength, MPa	751.5	703.3	682.6	669	648.1
0.2% Yield Strength, MPa	551.6	469	448.2	427.5	400