



## **Stainless Steel AL-6XN**

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 Stainless Steel AL-6XN material.

### **UNS - N08367**

AL-6XN is a super austenitic stainless steel with extraordinary resistance to chloride pitting, crevice corrosion and stress corrosion cracking. AL-6XN is a 6 Moly alloy that was produced for and is utilized as a part of highly aggressive environments.

It has a high nickel (24%), nitrogen, molybdenum (6.3%) and chromium contents that give it magnificent resistance to chloride stress corrosion cracking, chloride pitting, and unique corrosion resistance. Stainless Steel AL-6XN is basically utilized for its enhanced pitting and crevice corrosion resistance in chlorides. It is a weldable and formable stainless steel. Due to its nitrogen content, AL-6XN has greater tensile strength than regular austenitic stainless steel, while retaining high flexibility and effective strength.

### **Characteristics**

- Excellent resistance to pitting and crevice corrosion in chloride solutions
- Practical immunity to stress corrosion in NaCl environments
- High Strength and toughness

### **Applications**

- Reverse osmosis desalination equipment and pumps
- FGD Scrubbers
- Chemical process tanks and pipelines
- Seawater heat exchangers
- Tall oil distillation columns and packing
- Offshore oil and gas production equipment
- Pulp bleaching plant washers, vats, press rolls and pipelines



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## **Sheng He Pipe Industry offers Stainless Steel AL-6XN in a variety of forms, including:**

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

### **ASTM Specifications**

Pipe Welded	Tube Welded	Sheet / Plate	Bar	Fitting
B 675, A 312	B 676, A 249	B 688, A 240	B 691, A 479	B 462, A 182

### **Chemical Composition %**

C	N	Si	P	S	Cr	Mn	Fe	Ni	Cu	Mo
0.030 max	0.18- 0.25	1.0 max	0.040 max	0.030 max	20.0-2 2.0	2.0 max	Remainder	23.50 - 25.50	0.75 max	6.0 - 7.0

### **Mechanical Properties**

Tensile Strength (ksi)	0.2% Yield Strength (ksi)	Elongation% in 2 inches
104	46	30



## Physical Properties

	Units	Temperature in °C
Density	8.06 g/cm <sup>3</sup>	Room
Specific Heat	0.11 Kcal/kg.C	22°
Melting Point	1321 - 1400 °C	-
Modulus of Elasticity	193 KN/mm <sup>2</sup>	20°
Electrical Resistivity	89 μΩ.cm	Room
Coefficient of Expansion	15.3 μm/m °C	20 - 100°
Thermal Conductivity	11.6 W/m -°K	20°