

# UNS S30615

## Introduction :

Aesteiron continues to expand its product line in UNS S30615 to meet the emerging customer needs, and whereas Aesteiron Steels Pvt. Ltd. is ISO 9001 : 2008 Certified, ASPL has a great Projects in this grade in all parts of the world with renowned suppliers presenting the wide range of services. We pride ourselves in the quality of our products, our competitive pricing and our exceptional customer service. We have been recognized for our outstanding customer service in satisfaction surveys of top- ranked mills in india and all over the world. ASPL, with iron and steel as its main business, manufactures premium steel products with high technologies and a high added value and fosters three major product categories, namely carbon steel, stainless steel and special steel. Through our worldwide marketing network, these premium products not only satisfy the demand on the domestic market but are also exported to more than forty countries and regions in Asia, Africa, Europa and America, extensively applied to various. We are a highly qualified by our customers worldwide as a sustainable and trustworthy to meet their request and need at the right time and the right time and the right area. We strive and stand committed to maintain this respectable position by catering to the requirements of our customers in the best possible way leaving no room for complaints.

## Products Available Chemical Composition

### in forms :

- UNS S30615 Plates
- UNS S30615 Pipes
- UNS S30615 Round Bar
- UNS S30615 Tube
- UNS S30615 Flanges
- UNS S30615 Wire
- UNS S30615 Fittings

	UNS S30615
Carbon	0.16-0.24
Manganese	2.00 max
Phosphorus	0.030 max
Sulfur	0.030 max
Silicon	3.2-4.0
Chromium	17.0-19.5
Nickel	13.5-16.0
Aluminum	0.80-1.50

## Standard Available in forms :

- ASTM A484 / ASME SA484

## Application

- Initially used in primarily the heat treating industry, this alloy is becoming popular with a variety of other applications including coal conversion and incineration equipment.
- With twice the creep strength of standard 310s, it is a good choice for hostile environments with its resistance to hot corrosives.

## Machinability

- This alloy, due to its' alloy content can be tough to machine. Slow speeds, constant feeds and abundant lubricant will optimize success in all operations.

## Forming

- This alloy will exhibit characteristics similar to austenitic stainless steels.
- It can be successfully formed using all common methods.

## Welding

- The high level of silicon in this alloy requires the use of great care to achieve sound welds.
- For GMAW welding, do not add oxygen in the shielding gas and keep interpass temperatures below 300 F(150 C).
- For GTAW, use argon shielding gas with 25% helium added for manual operations.
- Choice of filler metal should consider the need for ferrite deposition in the weld bead.
- For spray arc transfer methods, 80% minimum argon is required.
- Keep interpass temperatures under 212 F(100 C) and use the lowest inputs necessary to remain in the spray arc transfer range.
- Preheating and postweld annealing is not required with this material.

## Annealing

- Soak at 2050 F(1120 C), water quench.
- For stress relieving, heat to 1850 F(1010 C), furnace cool till black then air cool.

## Hardening

- This alloy will not harden in response to thermal treatment.



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