

NAS 155N, UNS S31727

Introduction :

Aesteiron continues to expand its product line in UNS S31727 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

in forms :

- NAS 155N, UNS S31727 Plates
- NAS 155N, UNS S31727 Pipes
- NAS 155N, UNS S31727 Round Bar
- NAS 155N, UNS S31727 Tube
- NAS 155N, UNS S31727 Flanges
- NAS 155N, UNS S31727 Wire
- NAS 155N, UNS S31727 Fittings

Chemical Composition

	NAS 155N	UNS S31727
Carbon	0.030 max	0.030 max
Manganese	1.00 max	1.00 max
Phosphorus	0.030 max	0.030 max
Sulfur	0.030 max	0.030 max
Silicon	1.00 max	1.00 max
Chromium	17.5-19.0	17.5-19.0
Nickel	14.5-16.5	14.5-16.5
Nitrogen*	0.15-0.21	0.15-0.21
Molybdenum	3.8-4.5	3.8-4.5
Copper	2.8-4.0	2.8-4.0

Standard Available

in forms :

- ASTM A484 / ASME SA484
- ASTM A240 / ASME SA240

Mechanical Properties

	NAS 155N	UNS S31727
Tensile Strength (N/mm ²)	≥550	≥550
0.2% Yield Strength (N/mm ²)	≥245	≥245
Elongation %	≥35	≥35
Reduction in Area, %	-	-
Hardness, (HB)	≥217	≥217

Corrosion Resistance

- NAS 155N has excellent resistance to sulfuric acid dew point corrosion.
- It also provides corrosion resistance basically equal to that of Alloy 20.

Workability

- Work similar to that with ordinary austenitic stainless steels is possible.
- However, deformation is slightly higher in room temperature forming.

Weldability

- Weldability is on the same level as ordinary austenitic stainless steels.

- Preheating and post-heating are not necessary.
- As welding rods, use of Alloy 20 or Alloy 276 is recommended.

Heat Treatment

- Because NAS 155N is an austenitic stainless steel, heat treatment also conforms to that of standard austenitic stainless steel.
- The solution treatment conditions normally used with this material are temperature of 1125-1175°C with water cooling.

Pickling

- A high mixture of nitric acid and hydrofluoric acid is used in pickling.
- However, due to the high corrosion resistance of NAS 155N, scale is somewhat difficult to remove in comparison with Type 304.
- Therefore, the material should be immersed in an alkaline solution before pickling, or if possible, shot blasting is extremely effective.

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Applications

- Used in equipment in which sulfuric acid dew point occurs, including chimeys, dampers for heavy boilers, flue gas exchangers, and flue gas scrubbers, carbon black driers and dilute sulfuric acid tanks.



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