

NAS 254N, UNS S32053

Introduction :

Aesteiron continues to expand its product line in UNS S32053 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 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 254N, UNS S32053 Plates
- NAS 254N, UNS S32053 Pipes
- NAS 254N, UNS S32053 Round Bar
- NAS 254N, UNS S32053 Tube
- NAS 254N, UNS S32053 Flanges
- NAS 254N, UNS S32053 Wire
- NAS 254N, UNS S32053 Fittings

Chemical Composition

	NAS 254N	UNS S32053
Carbon	0.030 max	0.030 max
	1.00 max	1.00 max
	0.030 max	0.030 max
	0.010 max	0.010 max
	1.00 max	1.00 max
	22.0-24.0	22.0-24.0
	24.0-26.0	24.0-26.0
	0.17-0.22	0.17-0.22
	5.0-6.0	5.0-6.0

Mechanical Properties

	NAS 254N	UNS S32053
Ultimate Tensile Strength, Mpa	640	640
0.2% Offset Yield Strength, Mpa	295	295
Elongation in 2 inches, %	40 min	40 min
Hardness (HRC)	95 max	95 max

Workability

- The hot and cold workability of NAS 254N is basically the same as that of standard austenitic stainless steels such as Type 304, Type 316, etc.
- However, the fact that this is a high strength material must be considered in both cold and hot working.

Weldability

- Various welding methods are applicable in the same manner as with the standard austenitic stainless steels, including shielded metal arc welding, TIG welding, and plasma welding.
- Alloy 276 welding consumable should be used.

Machinability

- As a feature of high Ni stainless steels, although machining is difficult in comparison with the standard austenitic stainless steels, it is easier than with Ni-based alloys.
- A ultrahard tool should be used in machining if at all possible.

- It is also advisable to use a slower feed rate and deeper cutting depth.

Heat Treatment

Because NAS 254N is an austenitic stainless steel, heat treatment is equivalent to that with the standard austenitic stainless steels. The following heat treatment conditions are normally used:

- Solution heat treatment: 1125~1175 °C ; Water cooling
- Stress relief heat treatment: 450~550 °C ; Air cooling

Pickling

- A mixture of nitric acid and hydrofluoric acid is used in pickling.
- However, due to the high corrosion resistance of NAS 254N, 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.

"Aesteiron House", 107, Kika Street, 4th Floor, Gulalwadi, Mumbai - 400 004, India.
info@aesteiron.com www.aesteiron.com

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Applications

- Seawater environments: Marine structures, seawater desalination systems, heat exchangers using seawater, condenser tubes, etc.
- Chemical plants: PC manufacturing plants, bis-phenol A manufacturing plants, carbon black manufacturing plants, etc.
- Pulp and paper plants: Various types of bleaching systems, scrubbers, etc.
- Medical and pharmaceutical product plants: Centrifugal separators, reaction tanks, etc.
- Food product plants: Soy sauce fermentation tanks, salty mirin tanks, dressing manufacturing equipment, etc.
- Pollution prevention systems: Thermal power plant flue gas desulfurization plants, etc.



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