

NITRONIC 33, UNS S24000, XM-29

Introduction :

Aesteiron continues to expand its product line in UNS S24000 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, Europe 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 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 :

- NITRONIC 33, UNS S24000, XM-29 Plates
- NITRONIC 33, UNS S24000, XM-29 Pipes
- NITRONIC 33, UNS S24000, XM-29 Round Bar
- NITRONIC 33, UNS S24000, XM-29 Tube
- NITRONIC 33, UNS S24000, XM-29 Flanges
- NITRONIC 33, UNS S24000, XM-29 Wire
- NITRONIC 33, UNS S24000, XM-29 Fittings

Chemical Composition

	ALLOY 33	UNS S24000	XM-29
Carbon	0.08max	0.08max	0.08max
Manganese	11.50-14.50	11.50-14.50	11.50-14.50
Silicon	1.00max	1.00max	1.00max
Chromium	17.0-19.0	17.0-19.0	17.0-19.0
Nickel	2.25-3.75	2.25-3.75	2.25-3.75
Phosphorus	0.060max	0.060max	0.060max
Sulfur	0.030max	0.030max	0.030max
Nitrogen	0.20-0.40	0.20-0.40	0.20-0.40

Standard Available

in forms :

- ASTM A240 / ASME SA240
- ASTM A249 / ASME SA249
- ASTM A269 / ASME SA269
- ASTM A479 / ASME SA479
- ASTM A276 / ASME SA276
- ASTM A312 / ASME SA312
- ASTM A313 / ASME SA313
- ASTM A358 / ASME SA358
- ASTM A412 / ASME SA412
- ASTM A479 / ASME SA479
- ASTM A580 / ASME SA580
- ASTM A688 / ASME SA688
- ASTM A813 / ASME SA813
- ASTM A814 / ASME SA814

Mechanical Properties

	ALLOY 33	UNS S24000	XM-29
Ultimate Tensile Strength, ksi(Mpa)	115(793)	115(793)	115(793)
Yield Strength, ksi(Mpa)	68(469)	68(469)	68(469)
Elongation %	50	50	50
Hardness, Rockwell B	95	95	95

Fabrication and Heat Treatment Annealing

- Alloy 33 is soaked at 1038-1121°C (1900-2050°F) and then rapidly quenched in water or air

Welding

- Common welding techniques are used for Alloy 33 such as submerged arc welding, gas metal arch welding, and gas tungsten arc welding.

Forging

- Alloy 33 is heated to 1093°C (2000°F) and then soaked to equalize.
- The alloy is again heated to 1177°C (2150°F) and equalized before being forged.

Forming

- Alloy 33 can be formed by the commonly used forming methods.
- For instant annealing, this alloy is heated to 1065°C (1950°F).
- The stress that is formed due to the high hardening rate is removed by a process annealing method.

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Machinability

- Alloy 33 can be machined by commonly used machining methods, and usage of resulphurized lubricant, positive feeds and slow speeds are recommended for the machining process of this alloy.
- Breakers or curlers can also be used as the chips might be stringy or tough.

Hardening

- Alloy 33 can be hardened when cold worked. It cannot be hardened under thermal treatment.

Applications

Alloy 33 include the following applications:

- Tube assemblies
- Pipes
- Cable
- Valves
- Tanks
- Containment rings
- Fans



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