

# SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S, Grade 410S, AFNOR Z 6 C 13

## Introduction :

Aesteiron continues to expand its product line in UNS S41008 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.

## Chemical Composition

	SS 410S	TYPE 410S	WNR 1.4000	UNS S41008	AISI 410S	GRADE 410S	AFNOR Z 6 C 13
Carbon	0.08 max	0.08 max	0.08 max	0.08 max	0.08 max	0.08 max	0.08 max
Manganese	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max
Phosphorus	0.040 max	0.040 max	0.040 max	0.040 max	0.040 max	0.040 max	0.040 max
Sulfur	0.030 max	0.030 max	0.030 max	0.030 max	0.030 max	0.030 max	0.030 max
Silicon	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max
Chromium	11.5-14.5	11.5-14.5	11.5-14.5	11.5-14.5	11.5-14.5	11.5-14.5	11.5-14.5
Titanium	0.20max	0.20max	0.20max	0.20max	0.20max	0.20max	0.20max

## Mechanical Properties

	SS 410S	TYPE 410S	WNR 1.4000	UNS S41008	AISI 410S	GRADE 410S	AFNOR Z 6 C 13
UTS ksi (Mpa)	65(448)	65(448)	65(448)	65(448)	65(448)	65(448)	65(448)
0.2% YS ksi (Mpa)	40(276)	40(276)	40(276)	40(276)	40(276)	40(276)	40(276)
Elongation% in 2" (50.8mm)	25	25	25	25	25	25	25
Reduction in Area, %	-	-	-	-	-	-	-
Hardness, Rockwell B	75	75	75	75	75	75	75

## Standard Available in forms :

- ASTM A182/ ASME SA182 Stainless Steel Pipe Fittings
- ASTM A213 / ASME SA213 Seamless Stainless Steel Pipes
- ASTM A240/ ASME SA240 Stainless Steels Sheets / Plates
- ASTM A249/ ASME SA249 Stainless Steel Welded Tubes
- ASTM A269/ ASME SA269 Stainless Steel Tubes
- ASTM A270/ ASME SA270 Stainless Steel Sanitary Tubes
- ASTM A312/ ASME SA312 Stainless Steel Pipes
- ASTM A403/ ASME SA403 Stainless Steel Pipe Fittings
- ASTM A554/ ASME SA554 Stainless Steel Welded Tubes
- ASTM A731/ ASME SA731 Stainless Steel Pipes
- ASTM A789/ ASME SA789 Stainless Steel Tubes
- ASTM A790/ ASME SA790 Stainless Steel Pipes
- ASTM A791/ ASME SA791 Stainless Steel Tubes

## Products Available in forms :

- SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S Plates
- SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S Pipes
- SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S Round Bar
- SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S Tube
- SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S Flanges
- SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S Wire
- SS 410S, Type 410S, WNR 1.4000, UNS S41008, AISI 410S Fittings

## Fabrication and Heat Treatment

### Annealing

- Grade 410S stainless steel is annealed at 649-760°C (1200-1400°F) and then cooled in air.

### Cold Working

- Commonly used cold working methods are used for grade 410S stainless steel.

### Welding

- Grade 410S stainless steel can be welded by commonly used welding methods. The workpiece is preheated to 177-204°C (350-400°F) to prevent cracking.

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## Machinability

- Grade 410S stainless steel can be machined in the annealed condition though better results are obtained in heat treated and cold drawn conditions.

## Hardening

- Grade 410S stainless steel does not respond to hardening by heat treatment.

## Hot Working

- Grade 410S stainless steel can be hot worked between 1093 and 1204°C (2000 and 2200°F). Hot working below 899°C (1650°F) is not recommended for grade 410S stainless steel.



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