

# SS 304N, Type 304N, WNR 1.4315, UNS S30451, AISI 304N, Grade 304N, ASTM 304N

## Introduction :

Aesteiron continues to expand its product line in UNS S30451 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 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 304N	TYPE 304N	WNR 1.4315	UNS S30451	AISI 304N	GRADE 304N	ASTM 304N
Carbon	0.08max	0.08max	0.08max	0.08max	0.08max	0.08max	0.08max
Manganese	2.00max	2.00max	2.00max	2.00max	2.00max	2.00max	2.00max
Phosphorus	0.035max	0.035max	0.035max	0.035max	0.035max	0.035max	0.035max
Sulfur	0.030max	0.030max	0.030max	0.030max	0.030max	0.030max	0.030max
Silicon	1.00max	1.00max	1.00max	1.00max	1.00max	1.00max	1.00max
Chromium	18.0-20.0	18.0-20.0	18.0-20.0	18.0-20.0	18.0-20.0	18.0-20.0	18.0-20.0
Nickel	7.0-10.50	7.0-10.50	7.0-10.50	7.0-10.50	7.0-10.50	7.0-10.50	7.0-10.50
Nitrogen*	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25
Molybdenum	-	-	-	-	-	-	-
Copper	-	-	-	-	-	-	-

## Mechanical Properties

	SS 304N	TYPE 304N	WNR 1.4315	UNS S30451	AISI 304N	GRADE 304N	ASTM 304N
Tensile Strength, Mpa	550	550	550	550	550	550	550
Yield Strength, Mpa, min	240	240	240	240	240	240	240
Elongation in 2 inches, %	30 min	30 min	30 min	30 min	30 min	30 min	30 min
Reduction in Area, %	-	-	-	-	-	-	-
Hardness, Rockwell B	95 min	95 min	95 min	95 min	95 min	95 min	95 min

## 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

## Products Available in forms :

- SS 304N, Type 304N, WNR 1.4315, UNS S30451 Plates
- SS 304N, Type 304N, WNR 1.4315, UNS S30451 Pipes
- SS 304N, Type 304N, WNR 1.4315, UNS S30451 Round Bar
- SS 304N, Type 304N, WNR 1.4315, UNS S30451 Tube
- SS 304N, Type 304N, WNR 1.4315, UNS S30451 Flanges
- SS 304N, Type 304N, WNR 1.4315, UNS S30451 Wire
- SS 304N, Type 304N, WNR 1.4315, UNS S30451 Fittings

- ASTM A789/ ASME SA789 Stainless Steel Tubes
- ASTM A790/ ASME SA790 Stainless Steel Pipes
- ASTM A791/ ASME SA791 Stainless Steel Tubes

## Applications

Grade 304N stainless steel is widely used in the following applications:

- Valves
- Oil well filter screens
- Cooling coils
- Pressure vessels
- Evaporators
- Beer barrels
- Chemical equipment
- Dairy equipment,
- Flexible metal hose
- Nuclear vessels
- Textile dyeing equipment
- Food processing equipment
- Hypodermic needles



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