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

Introduction:

Aesteiron is an ISO 9001: 2015 Certified Company, we continues to expand our product line in UNS S30451 to meet the emerging customer requirements. As a renowned suppliers we have done a great project all around the word in this grade by presenting the wide range of services of our product. We make ensures to offer high product quality at competitive pricing and extraordinary customer service. We are well known for our exceptional customer service in satisfaction surveys of top- ranked mills all over the world as well as in India. And are also the, premium manufactures of steel products with latest technologies and a high value added. We not only satisfy the demand of our premium product on the domestic market but also satisfy international market also to more than forty countries and regions in America, Africa, Asia, and Europe. We are a highly certified by our worldwide customers as a sustainable and trustworthy to meet their request and demand at the right time and the right area. We try hard 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.

SS 304N grade has better corrosion resistance compared to SS 302 grades, and it is non-magnetic in nature; but when it is cold worked it acquires obtains magnetic quality. It is made from CR-NI stainless steel and this kind of products are better and highly rusts free. It has high tensile yield as well as tensile yield strength with no retreating ductility.

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

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Standard Available in forms:

- · ASTM A182/ ASME SA182 Stainlees 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
- \cdot 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 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

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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