

SS 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F, ASTM 316F, Grade 316F

Introduction :

Stainless steel grade 316F at high temperatures possesses high creep strength and good heat resistance. In this steel the content of molybdenum helps to increase resistance to marine environments. As compared to grade 302 and 304 steels it has better corrosion resistance.

Chemical Composition

	SS 316F	TYPE 316F	WNR 1.4427	UNS S31620	AISI 316F	ASTM 316F	GRADE 316F
Carbon	0.08 max	0.08 max	0.08 max	0.08 max	0.08 max	0.08 max	0.08 max
Manganese	2.00 max	2.00 max	2.00 max	2.00 max	2.00 max	2.00 max	2.00 max
Phosphorus	0.20 max	0.20 max	0.20 max	0.20 max	0.20 max	0.20 max	0.20 max
Sulfur	0.10 min	0.10 min	0.10 min	0.10 min	0.10 min	0.10 min	0.10 min
Silicon	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max
Chromium	16.0-18.0	16.0-18.0	16.0-18.0	16.0-18.0	16.0-18.0	16.0-18.0	16.0-18.0
Nickel	10.0-14.0	10.0-14.0	10.0-14.0	10.0-14.0	10.0-14.0	10.0-14.0	10.0-14.0
Nitrogen*	-	-	-	-	-	-	-
Molybdenum	1.75-2.5	1.75-2.5	1.75-2.5	1.75-2.5	1.75-2.5	1.75-2.5	1.75-2.5
Copper	-	-	-	-	-	-	-

Mechanical Properties

	SS 316F	TYPE 316F	WNR 1.4427	UNS S31620	AISI 316F	ASTM 316F	GRADE 316F
Tensile Strength[Mpa]	585	585	585	585	585	585	585
Yield Strength[Mpa]	240	240	240	240	240	240	240
Elongation%	40	40	40	40	40	40	40
Reduction in Area,%	55	55	55	55	55	55	55
Hardness, Rockwell B	85 max	85 max	85 max	85 max	85 max	85 max	85 max

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 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F Plates
- SS 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F Pipes
- SS 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F Round Bar
- SS 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F Tube
- SS 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F Flanges
- SS 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F Wire
- SS 316F, Type 316F, WNR 1.4427, UNS S31620, AISI 316F Fittings

Applications

Grade 316F stainless steel is used in the following applications:

- Surgical implants
- Food and pharmaceutical processing equipment
- Marine exterior trim
- Industrial equipment that are used for handling corrosive process chemicals for producing photographic chemicals, inks, rayons, paper, bleaches, textiles, and rubber.



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