



316L

<https://www.steel0.com>

High Quality Special Steel Supplier

+86-13880247006 E-mail:sales@steel0.com

316L

Steel, Corrosion Resistant, Bars, Wire, Shapes, and Forgings 316L steel chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, We can produce round bars, forged rings, forged cakes, flat bars, tubes, sheets, plates, steel wires, steel strips, steel coils, etc. The size can be customized, the maximum order quantity is 100Kg. It also contains the use of **316L**,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Data Table for Grades Stainless Steels - Special Steels Steel, Corrosion Resistant, Bars, Wire, Shapes, and Forgings 316L

316L Standard Number		
ITEM	Standard Number	Descriptions
1	SAE AMS-QQ-S-763B (1998)	Steel, Corrosion Resistant, Bars, Wire, Shapes, and Forgings
2	A 182/A 182M (2012)	Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service
3	A 240/A 240M (2012)	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
4	A 249/A 249M (2010)	Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes
5	A 269 (2010)	Seamless and Welded Austenitic Stainless Steel Tubing for General Service
6	A 276 (2010)	Stainless Steel Bars and Shapes
7	A 312/A 312M (2012)	Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
8	A 314 (2008)	Stainless Steel Billets and Bars for Forging
9	A 358/A 358M (2008)	Electric-Fusion-Welded Austenitic Chromium-Nickel Stainless Steel Pipe for High-Temperature Service and General Applications
10	A 409/A 409M (2009)	Welded Large Diameter Austenitic Steel Pipe for Corrosive or High-Temperature Service
11	A 473 (2009)	Stainless Steel Forgings



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12	A 478 (2008)	Chromium-Nickel Stainless Steel Weaving and Knitting Wire
13	A 479/A 479M (2011)	Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels
14	A 511/A 511M (2012)	Seamless Stainless Steel Mechanical Tubing
15	A 554 (2011)	Welded Stainless Steel Mechanical Tubing
16	A 580/A 580M (2012)	Stainless Steel Wire
17	A 632 (2009)	Seamless and Welded Austenitic Stainless Steel Tubing (Small-Diameter) for General Service
18	A 666 (2010)	Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
19	A 774/A 774M (2009)	As-Welded Wrought Austenitic Stainless Steel Fittings for General Corrosive Service at Low and Moderate Temperatures
20	A 778 (2009)	Welded, Unannealed Austenitic Stainless Steel Tubular Products
21	A 793 (2009)	Rolled Floor Plate, Stainless Steel
22	A 813/A 813M (2009)	Single- or Double-Welded Austenitic Stainless Steel Pipe
23	A 814/A 814M (2008)	Cold-Worked Welded Austenitic Stainless Steel Pipe
24	A 943/A 943M (2009)	Spray-Formed Seamless Austenitic Stainless Steel Pipes
25	A 959 (2011)	Standard Guide for Specifying Harmonized Standard Grade Compositions for Wrought Stainless Steels
26	A 965/A 965M (2012)	Steel Forgings, Austenitic, for Pressure and High Temperature Parts
27	A 988/A 988M (2011)	Hot Isostatically-Pressed Stainless Steel Flanges, Fittings, Valves, and Parts for High Temperature Service
28	SAE J 405 (1998)	Chemical Compositions of SAE Wrought Stainless Steels

316L Chemical composition(mass fraction)(wt.%)

Chemical	Min.(%)	Max.(%)
C		0.03
Si		1.00
Mn		2.00
P		0.045
S		0.035
Cr	16.0	18.0
Ni	10.0	14.0



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Mo	2.00	3.00
N		0.10

316L Physical Properties		
Tensile strength	115-234	?b/MPa
Yield Strength	23	? 0.2 ?/MPa
Elongation	65	?5? (%)
?	-	?? (%)
Akv	-	Akv?/J
HBS	123-321	-
HRC	30	-

316L Mechanical Properties		
Tensile strength	231-231	?b/MPa
Yield Strength	154	? 0.2 ?/MPa
Elongation	56	?5?(%)
?	-	??(%)
Akv	-	Akv?/J
HBS	235-268	-
HRC	30	-

316L Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
?	?	?	?	?

316L Range of products				
Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID-



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				WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	∅8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot-Rolled	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID-WASHED

We can produce Stainless Steels - Special Steels the specifications follows:

Note:

- (1) listed in the table apex diameter (d), to steel thickness (a) multiples said.
- (2) in the ASTM A6 standard specified scope can meet any additional conditions.
- (3) from the standard for 50 mm (2 in).

Mechanical properties

Mechanische Eigenschaften

Caracteristiques mecaniques

ReH Minimum yield strength / Mindestwert der oberen Streckgrenze / Limite d'elasticite minimale

Rm Tensile strength / Zugfestigkeit / Resistance a la traction

A Minimum elongation / Mindestwert der Bruchdehnung / Allongement minimal

J Notch impact test / Kerbschlagbiegeversuch / Essai de flexion par choc

Round bar:

Diameter : 1mm-2000mm

Square bar:

Size: 50mm * 50mm-600mm *600mm

Plate steel/flat bar:

Size: Thickness: 0.1mm-800mm Width: 10mm to 1500mm

Tube/pipe:

Size: OD: 6-219mm WT: 1-35 mm.

Cold-rolled sheet: Thickness: 2-5mm Width:1000mm Length: 2000mm

Hot-rolled sheet: Thickness:6-80mm Width: 210-610mm

Length: We can supply any length based on the customer's requirement.

Forging/hot rolling/ extrusion of steel.

Forging: Shafts with flanks/pipes/tubes/slugs/donuts/cubes/other shapes

Finished goods condition: hot forging/hot rolling + annealing/normalizing + tempering/quenching + tempering/any



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conditions based on the customer's requirement

Surface conditions: scaled (hot working finish)/ground/rough machining/fine machining/based on the customer's requirement

Furnaces for metallurgical processing: electrode arc + LF/VD/VOD/ESR/Vacuum consumable electrode.

Ultrasonic inspection: 100% ultrasonic inspection for any imperfections or based on the customer's requirement.

UTS according to SEP 1921 C/c,D/d,E/e;A388 or GB/T 6402

Excellent service for all kinds of industries, with advantages of technologies, equipment and price.

We serve you with our honesty, integrity, and professionalism.