

317

Steel, Corrosion Resistant, Bars, Wire, Shapes, and Forgings 317 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 **317**, 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 317

317 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 213/A 213M (2011)	Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat- Exchanger Tubes	
4	A 240/A 240M (2012)	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications	
5	A 249/A 249M (2010)	Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes	
6	A 269 (2010)	Seamless and Welded Austenitic Stainless Steel Tubing for General Service	
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 403/A 403M (2012)	Wrought Austenitic Stainless Steel Piping Fittings	
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	



12	A 478 (2008)	Chromium-Nickel Stainless Steel Weaving and Knitting Wire
13	A 479/A 479M (2010)	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 813/A 813M (2009)	Single- or Double-Welded Austenitic Stainless Steel Pipe
19	A 814/A 814M (2008)	Cold-Worked Welded Austenitic Stainless Steel Pipe
20	A 943/A 943M (2009)	Spray-Formed Seamless Austenitic Stainless Steel Pipes
21	A 959 (2011)	Standard Guide for Specifying Harmonized Standard Grade Compositions for Wrought Stainless Steels
22	A 988/A 988M (2011)	Hot Isostatically-Pressed Stainless Steel Flanges, Fittings, Valves, and Parts for High Temperature Service
23	SAE J 405 (1998)	Chemical Compositions of SAE Wrought Stainless Steels

317 Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С		0.08		
Si		1.00		
Mn		2.00		
Р		0.045		
S		0.03		
Cr	18.00	20.00		
Ni	11.00	15.00		
Мо	3.00	4.00		
Ν		0.10		

317 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	-

317 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			

317 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
?	?	?	?	?

317 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- 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



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

Blasting

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 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 inperfections 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 professionality.