

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



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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	Chemical Min.(%)				
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			
N		0.10			

317 Physical Properties				
Tensile strength	115-234	?b/MPa		



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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	



				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

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.