



## AISI 501

<https://www.steelss.com>

High Quality Special Steel Supplier

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# AISI 501

A 194/A 194M (2014) Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both AISI 501 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 **AISI 501**,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

## Data Table for Steel Grades Alloy and Non alloy Structural Steel A 194/A 194M (2014) Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both AISI 501

AISI 501 Standard Number		
ITEM	Standard Number	Descriptions
1	A 194/A 194M (2014)	Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both
2	A 314 (2013)	Stainless Steel Billets and Bars for Forging

AISI 501 Chemical composition(mass fraction)(wt.%)		
Chemical	Min.(%)	Max.(%)
C		0.15
Mn	0.30	0.60
Si		0.50
P		0.030
S		0.50
Cr	4.00	6.00
Mo	0.45	0.65

AISI 501 Physical Properties
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Tensile strength	115-234	?b/MPa
Yield Strength	23	? 0.2 ?/MPa
Elongation	65	?5? (%)
?	-	?? (%)
Akv	-	Akv?/J
HBS	123-321	-
HRC	30	-

### AISI 501 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	-

### AISI 501 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
?	?	?	?	?

### AISI 501 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-	Annealed, Solution and



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			Rolled	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 Alloy and Non alloy Structural Steel the specifications follows:**