

This page is mainly introduced the 1.4303 chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1.4303, 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 1.4303**

1.4303 Standard Number:			
ITEM	Standard Number Descriptions		
1	DIN 17440 (2001)	Stainless steels - Technical delivery conditions for drawn wire	
2	DIN 17440 (1972)	Stainless steels - Technical delivery conditions for drawn wire	
3	DIN EN 10088-1	Stainless steels - Part 1: List of stainless steels	
4	DIN EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes	
5	DIN EN 10088-3	Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes	
6	DIN EN 10264-4 (2002)	Steel wire and wire products - Steel wire for ropes - Part 4: Stainless steel wire	
7	DIN EN 10269	Steels and nickel alloys for fasteners with specified elevated and/or low temperature properties	
8	DIN 1654-5 (1989)	Cold heading and cold extruding steels; technical delivery conditions for stainless steels	
9	DIN 17441 (1985)	Stainless steels - Technical delivery conditions for cold rolled strips and slit coils strip and sheets cut from such strips for pressure purposes	
10	DIN EN 10263-5	Steel rod, bars and steel wire for cold heading and cold extrusion - Part 5: Technical delivery conditions for stainless steels	

1.4303 Chemical composition(mass fraction)(wt.%)			
Chemical	Min.(%)	Max.(%)	
С		0.06	
Si		1.00	
Mn		2.00	
Р		0.045	
S		0.015	
Cr	17.0	19.0	
Ni	11.0	13.0	
N		0.11	

## 1.4303 Physical Properties

## 1.4303 Chemical information, Mechanical properties

Physical properties, Mechanical properties, Heat treatment, and Micro structure

Tensile strength	115-234	σb/MPa
Yield Strength	23	σ 0.2 ≥/MPa
Elongation	65	δ5≥ (%)
Ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

1.4303 Mechanical Properties			
Tensile strength	231-231	σb/MPa	
Yield Strength	154	σ 0.2 ≥/MPa	
Elongation	56	δ5≥(%)	
Ψ	-	ψ≥(%)	
Akv	-	Akv≥/J	
HBS	235-268	-	
HRC	30	-	

1.4303 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

1.4303 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	Φ8-1200mm*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 the specifications follows: