

This page is mainly introduced the 1026 chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1026, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Data Table for Grades Structural Steel 1026

1026 Standard Number:		
ITEM	Standard Number	Descriptions
1	A 1040 (2010)	Standard Guide for Specifying Harmonized Standard Grade Compositions for Wrought Carbon, Low-Alloy, and Alloy Steels
2	A 29/A 29M (2012)	Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for
3	A 510/A 510M (2011)	General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel
4	A 512 (2006)	Cold-Drawn Buttweld Carbon Steel Mechanical Tubing
5	A 513/A 513M (2012)	Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing
6	A 519 (2006)	Seamless Carbon and Alloy Steel Mechanical Tubing
7	A 576 (1990)	Steel Bars, Carbon, Hot-Wrought, Special Quality
8	A 830/A 830M (2011)	Plates, Carbon Steel, Structural Quality, Furnished to Chemical Composition Requirements
9	SAE J 1397 (1992)	Estimated Mechanical Properties and Machinability of Steel Bars
10	SAE J 403 (2009)	Chemical Compositions of SAE Carbon Steels
11	SAE J 412 (1995)	General Characteristics and Heat Treatments of Steels

1026 Chemical composition(mass fraction)(wt.%)		
Chemical	Min.(%)	Max.(%)
C	0.22	0.28
Mn	0.60	0.90
P		0.040
S		0.050

1026 Physical Properties		
Tensile strength	115-234	σ_b /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta 5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J

HBS	123-321	-
HRC	30	-

1026 Mechanical Properties

Tensile strength	231-231	σ_b /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta 5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	235-268	-
HRC	30	-

1026 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

1026 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 Structural Steel the specifications follows: