

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	EM 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.(%)		
С	0.22	0.28		
Mn	0.60	0.90		
Р		0.040		
S		0.050		

1026 Physical Properties				
Tensile strength	115-234	σb/MPa		
Yield Strength	23	σ 0.2 ≥/MPa		
Elongation	65	δ5≥ (%)		
Ψ	-	ψ≥ (%)		
Akv	-	Akv≥/J		

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1026 Chemical information, Mechanical properties

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

HBS	123-321	-
HRC	30	-

1026 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	-		

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	Ф8-1200mm*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:

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



1026 Chemical information, Mechanical properties

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

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.