

This page is mainly introduced the ASTM 1006 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of ASTM 1006, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Structure Steel ASTM 1006

ITEM Standard Number Descriptions	ASTM 1006 Standard Number:						
		ITEM	Standard Number	Descriptions			

	ASTM 1006 Chemical composition(mass fraction)(wt.%)								
Chemical Min.(%)					Max.(%)				
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
≤0.08		0.25[]0.40	≤0.040	≤0.050					
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

Note: 1. ASTM standard quality level of carbon steel rod can see ASTM cold A108-1999, its GangHao the chemical composition of the same with this form.

2. ASTM special levels of quality carbon steel rod can see the hot working ASTM A576 (90 b) (2000), the GangHao the chemical composition of the same with this form.

3. Require Si content (mass fraction), usually in the following 4 files a choice: 0.10% or Si, Si $0.10 \sim 0.20\%$, Si $0.20 \sim 0.40\%$, Si $0.30 \sim 0.60\%$. 4. Require Cu content (quality score) is 0.20% or Cu.

AST	ASTM 1006 Physical Properties				
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	-

ASTM 1006 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	-	

	ASTM 1006 Heat Treatment Regime					
Annealing	Quenching	Tempering	Normalizing	Q & T		
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

ASTM 1006 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 Structure Steel the specifications follows: