

This page is mainly introduced the UNS G10200 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of UNS G10200, 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 UNS G10200

### UNS G10200 Standard Number:

ITEM	Standard Number	Descriptions
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### UNS G10200 Chemical composition (mass fraction) (wt.%)

Chemical			Min.(%)				Max.(%)			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta	
0.18~0.23		0.30~0.60	≤0.040	≤0.050						
W	N	Cu	Co	Pb	B	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 ~ 0.20%, Si 0.20 ~ 0.40%, Si 0.30 ~ 0.60%.
4. Require Cu content (quality score) is 0.20% or Cu.

### UNS G10200 Physical Properties

Tensile strength	115-234	$\sigma_b$ /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_{5\%} \geq$ (%)
$\psi$	-	$\psi \geq$ (%)

Akv	-	Akv $\geq$ J
HBS	123-321	-
HRC	30	-

UNS G10200 Mechanical Properties		
Tensile strength	231-231	$\sigma_b$ /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta_5 \geq$ (%)
$\psi$	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ J
HBS	235-268	-
HRC	30	-

UNS G10200 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

UNS G10200 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	$\Phi$ 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-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:**