

This page is mainly introduced the 20g Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 20g, 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 20g**

	20g Standard Number:			
ITEM Standard Number Descriptions				

20g Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%) Max.(%)									
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
Max 0.20	0.15-0.30	0.50-0.90	0.035	0.035					
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

## 20g

20g 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	-			

20	20g Mechanical Properties			
Tensile strength	231-231	σb/MPa		
Yield Strength	154	σ 0.2 ≥/MPa		
Elongation	56	δ5≥(%)		



## Steel Grades20g Chemical information, Mechanical properties

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

Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

20g Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T					
√	√	√	√	√		

20g 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 Structure Steel the specifications follows: