

This page is mainly introduced the T11 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of T11, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Tool Steel And Hard Alloy T11

T11 Standard Number:				
ITEM	Standard Number	Descriptions		

T11 Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%)					Max.(%)				
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
1.05[]1.14	≤0.35	≤0.40	≤0.035	≤0.030					
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

The performance characteristics of carbon steel and use

T11 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	-			

T11 Mechanical Properties Tensile strength 231-231 σb/MPa				
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Steel GradesT11 Chemical information, Mechanical properties

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

Yield Strength	154	σ 0.2 ≥/MPa
Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

T11 Heat Treatment Regime					
Annealing Quenching Tempering Normalizing					
√	√	√	√	√	

T11 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 Tool Steel And Hard Alloy the specifications follows: