

This page is mainly introduced the T7 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of T7, 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 T7

T7 Standard Number:					
ITEM	ITEM Standard Number Descriptions				

T7 Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%) Max.(%)									
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.65[]0.74	≤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

T7 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	-			

T7 Mechanical Properties					
Tensile strength 231-231 ob/MPa					



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

T7 Heat Treatment Regime						
Annealing	Annealing Quenching Tempering Normalizing Q & T					
$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		

T7 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: