

This page is mainly introduced the Z44C14 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Z44C14, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Special Steel Z44C14

	Z44C14 Standard Number:					
ITEM Standard Number Descriptions						

Z44C14 Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%) Max.(%)					Max.(%)				
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.40-0.48	Max 0.75	Max 1.00	Max 0.040	Max 0.015	12.5-14.0				
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Z44C14

Z44C14 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	-			

Z44	Z44C14 Mechanical Properties			
Tensile strength	231-231	σb/MPa		
Yield Strength	154	σ 0.2 ≥/MPa δ5≥(%)		
Elongation	56			



Steel GradesZ44C14 Chemical information, Mechanical properties

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

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

Z44C14 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
√	V	√	V	√				

Z44C14 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 Special Steel the specifications follows: