

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 Specialsteel Z44C14

	Z44C14 Standard Number:				
ITEM	ITEM Standard Number Descriptions				
1	NF A 35-590	Tool steels			
2	2 NF A 35-573 Stainless steels for general purposes. Plates, wide strips and strips				
3	NF A 35-574	Iron and steel. Stainless steel for general purposes. Semi- finished products, bars and wire rod			

Z44C14 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
	С			0.40			0.48		
	Si						0.75		
Mn				1.00					
Р							0.040		
S							0.015		
Cr				12.50			14.00		
Мо									
Ni									
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other



Iron and steel. Stainless steel for general purposes. Semi- finished products, bars and wire rod

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	-

Z44C14 Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			
ψ	-	ψ≥(%)			
Akv	-	Akv≥/J			
HBS	235-268	-			
HRC	30	-			

Z44C14 Heat Treatment Regime					
Annealing Quenching		Tempering	Normalizing	Q & T	
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	

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,	Ф8-1200mm*L	Forging, hot rolling and	Black, Rough Turning,	



	Square Bar		cold rolling, Cast	Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	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 Specialsteel the specifications follows: