

This page is mainly introduced the S22C Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of S22C, 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 S22C

S22C Standard Number:				
ITEM Standard Number Descriptions				

S22C Chemical composition(mass fraction)(wt.%)									
	Chemical Min.(%) Max.(%)								
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.20-0.25	0.15-0.35	0.30-0.60	0.030	0.035	0.20				
W	N	Cu	Co	Pb	В	Nb	AI	Ti	Other
	0.20	0.30							

S22C

S22C 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	-			

S2	S22C Mechanical Properties				
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa δ5≥(%)			
Elongation	56				



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

S22C Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
	\checkmark	\checkmark	\checkmark	\checkmark			

S22C 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: