

This page is mainly introduced the SWRCH40K Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SWRCH40K, 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 SWRCH40K

SWRCH40K Standard Number:							
ITEM	TEM Standard Number Descriptions						

SWRCH40K Chemical composition(mass fraction)(wt.%)

Chemical				Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.37-0.43	0.10-0.35	0.60-0.90	0.030	Max 0.035					
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other
							-		

SWRCH40K

SWRCH40K 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	-			

SWRCH40K 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	-

SWRCH40K Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			

SWRCH40K 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 Structure Steel the specifications follows: