

This page is mainly introduced the 1J40 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1J40, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Special Alloy 1J40

	1J40 Standard Number:				
ITEM Standard Number Descriptions					

1J40 Chemical composition(mass fraction)(wt.%)									
Chemical Min.(%)						Max.(%)			
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
0.03	0.15-0.30	0.30-0.60	0.020	0.020		39.0-41.	.0 3.8-4.2		
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other
			24.5-25.5						

1J40

1J40 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	-				

1J40 Mechanical Properties					
Tensile strength 231-231 σb/MPa					
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			



Steel Grades1J40 Chemical information, Mechanical properties

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

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

1J40 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
√	√	√	√	√				

1J40 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 Special Alloy the specifications follows: