

This page is mainly introduced the LC1 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of LC1, 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 LC1

	LC1 Standard Number:				
ITEM Standard Number Descriptions					

LC1 Chemical composition(mass fraction)(wt.%)									
	Chemical Min.(%) Max.(%)								
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.25	0.6	0.50-0.80	0.04	0.045			0.45-0.65		
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

LC1

LC1 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	-				

LC	C1 Mechanical Propertie	S	
Tensile strength	231-231	σb/MPa	
Yield Strength	154	σ 0.2 ≥/MPa δ5≥(%)	
Elongation	56		



Steel GradesLC1 Chemical information, Mechanical properties

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

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

LC1 Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
V	√	√	V	√				

LC1 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: