

This page is mainly introduced the X6Crl3 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X6Crl3, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel X6Crl3

X6Crl3 Standard Number:					
ITEM	Standard Number	Standard Number Descriptions			
1	BS EN 10088-1	Stainless steels - Part 1: List of stainless steels			
2	BS EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes			
3	BS EN 10088-3	Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes			

X6Crl3 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
	С						0.08		
	Si						1.00		
	Mn			1.00			1.00		
	P						0.04		
	S			0.015					
	Cr			12.0			14.0		
Ni									
Мо									
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Steel GradesX6Crl3 Chemical information, Mechanical properties

Stainless steels - Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire,

sections and bright products of corrosion resisting steels for general purposes

X	S		
Tensile strength	115-234	σb/MPa	
Yield Strength	23	σ 0.2 ≥/MPa	
Elongation	65	δ5≥ (%)	
Ψ	-	ψ≥ (%)	
Akv	-	Akv≥/J	
HBS	123-321	<u>-</u>	
HRC	30	-	

X6Crl3 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	-			

X6Crl3 Heat Treatment Regime



Steel GradesX6Crl3 Chemical information, Mechanical properties

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

Annealing	Quenching	Tempering	Normalizing	Q & T
\checkmark	√	√	√	√

X6Crl3 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 Specialsteel the specifications follows: