

This page is mainly introduced the Y1Cr18Ni9 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Y1Cr18Ni9, 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 Y1Cr18Ni9

Y1Cr18Ni9 Standard Number:						
ITEM Standard Number Descriptions						

Y1Cr18Ni9 Chemical composition(mass fraction)(wt.%)										
Chemical				Min.(%)				Max.(%)		
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Ta
Max 0.15	Max 1.00	Max 2.00	max 0.200	Max 0.150	17.00-19. 00	8.00-10 0	.0			
W	N	Cu	Со	Pb	В	Nb		Al	Ti	Other

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Y1Cr18Ni9 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	-				



Y1Cr18Ni9 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	-				

Y1Cr18Ni9 Heat Treatment Regime							
Annealing Quenching Tempering Normalizing Q & T							
√	√	√	√	√			

Y1Cr18Ni9 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 Special Alloy the specifications follows: