

This page is mainly introduced the 07Cr18Ni11Nb Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 07Cr18Ni11Nb,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 07Cr18Ni11Nb

07Cr18Ni11Nb Standard Number:			
ITEM	Standard Number	Descriptions	

07Cr18Ni11Nb Chemical composition(mass fraction)(wt.%)										
Chemical				Min.(%)			Max.(%)			
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Ta
0.04-0.1	1.0	2.0	0.045	0.03	17.0-19.0	9.0-12.	0			
W	N	Cu	Co	Pb	В	Nb		Al	Ti	Other
						1.1(8C)			

This standard specifies the stainless steel rods order contents, classification, code, size, shape, weight and allowable deviation, technical requirements, test methods, inspection rules, packaging, logo and certificate of quality. This standard applies to the size is not more than 250 mm hot rolled and forged stainless steel rods. The supply and demand both sides talks things over, can also supply the size larger than 250 mm hot rolled and forged stainless steel rods.

07Cr18Ni11Nb 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	-				



Steel Grades07Cr18Ni11Nb Chemical information, Mechanical properties

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

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07Cr18Ni11Nb 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	-				

07Cr18Ni11Nb Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
V	√	√	√	√

07Cr18Ni11Nb 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: