

This page is mainly introduced the 0Cr17Ni7Al Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 0Cr17Ni7Al, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Special Steel 0Cr17Ni7Al

0Cr17Ni7Al Standard Number:

ITEM	Standard Number	Descriptions
1	GB 4238 (1992)	Heat-resisting steel sheets and plates
2	GB/T 1220 (1992)	Stainless steel bars
3	GB/T 1221 (1992)	Heat-resisting steel bars
4	GB/T 3280 (2007)	Cold rolled stainless steel sheets and plates
5	GB/T 4231 (1993)	Cold rolled stainless steel strips for springs
6	GB/T 4237 (1992)	Hot rolled stainless steel sheets and plates
7	GB/T 4239 (1991)	Cold rolled stainless steel and heat resisting steel strips
8	GB/T 4356 (2002)	Stainless steel wire rods

0Cr17Ni7Al Chemical composition (mass fraction) (wt.%)

Chemical			Min.(%)				Max.(%)			
C							0.09			
Si							1.00			
Mn							1.00			
P							0.035			
S							0.030			
Ni			6.50				7.75			
Cr			16.00				18.00			
Cu							0.50			
Al			0.75				1.50			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta	
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other	

0Cr17Ni7Al

0Cr17Ni7Al Physical Properties		
Tensile strength	115-234	σ_b /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta 5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	123-321	-
HRC	30	-

0Cr17Ni7Al Mechanical Properties		
Tensile strength	231-231	σ_b /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta 5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	235-268	-
HRC	30	-

0Cr17Ni7Al Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

0Cr17Ni7Al 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
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We can produce Specialsteel the specifications follows: