

This page is mainly introduced the IncoloyA-286 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of IncoloyA-286, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Superalloys IncoloyA-286

IncoloyA-286 Standard Number:					
ITEM	Standard Number	Descriptions			
4	ASTM B516	Pipe			
5	ASTM A453	Bolt			

IncoloyA-286 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
	С						0.08		
	Cr			13.50			16.00		
Ni				24.00			27.00		
Мо				1.00			1.50		
	Τi			1.75			2.30		
	V			0.10			0.50		
В				0.001			0.010		
Mn				1.00			2.00		
Fe							Bal		
	Al						0.40		
	Si 1.00			1.00					
Р							0.030		
	S						0.020		
С	Si	Mn	Р	S	Cr	Ni	Мо	٧	Ta
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Note: a cold pull rods, round cakes and ring blank standard (Ti) 1.80% \sim



- 2.35%.
- 2 (B) of hot-rolled and cold-rolled sheet standard $0.003\% \sim 0.010\%$.
- 2.00% or less (Mn), (P) acuities were 0.020%, 0.015% or less (S).
- 3 (Al) of cold drawn wire standard acuities were 0.35%, 1.75% \sim 2.35% (Ti) and (Si) 0.40% \sim 1.00%, 0.020% or less (P), (S) of 0.015% or less.

Use the wire, cold heading standards (Ti) $1.75\% \sim 2.35\%$, $0.40\% \sim 1.00\%$ (Ci) (P) a with a supers 0.035% (C) 0.020% and 0.040%

1.00% (Si), (P) acuities were 0.025%, 0.020% or less (S).

5 hot rolled and forged bar standard (Cu) of 0.25% or less.

1.5), heat treatment system is the standard heat treatment system are shown in table 1-3; Alloy is 900 °C heat treatment system plus or minus 10 °C, 1 to 2 h, oil cooled to + 750 °C + 10 °C, 16 h, air cooling.

IncoloyA-286 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	-			

IncoloyA-286 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	-			

IncoloyA-286 Heat Treatment Regime					
Annealing Quenching		Tempering	Normalizing	Q & T	
√	√	√	√	√	



IncoloyA-286 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 Superalloys the specifications follows: