

This page is mainly introduced the **Ti-0.3Mo-0.8Ni Ti Alloy Datasheet**, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of **Ti-0.3Mo-0.8Ni Ti Alloy**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Ti Alloy Ti-0.3Mo-0.8Ni Ti Alloy

Ti-0.3Mo-0.8Ni Ti Alloy Standard Number:

ITEM	Standard Number	Descriptions
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Ti-0.3Mo-0.8Ni Ti Alloy Chemical composition (mass fraction) (wt.%)

Chemical			Min.(%)				Max.(%)			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta	
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other	

Category	Titanium Alloy
Class	Wrought
Type	Commercially Pure
Composition	
Element	Weight %
Mo	0.3
Ni	0.8

Mechanical Properties			
Properties		Conditions	
		T (°C)	Treatment
Density (×1000 kg/m ³)	4.54	25	
Poisson's Ratio	0.33	25	
Elastic Modulus (GPa)	100-120	25	
Tensile Strength (Mpa)	324	315 more	annealed
Yield Strength (Mpa)	207		
Elongation (%)	32		
Reduction in Area (%)			

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Ti-0.3Mo-0.8Ni Ti Alloy 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	-

Ti-0.3Mo-0.8Ni Ti Alloy 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	-

Ti-0.3Mo-0.8Ni Ti Alloy Heat Treatment Regime

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

Ti-0.3Mo-0.8Ni Ti Alloy 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	Φ 8-1200mm*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 Ti Alloy the specifications follows: