

This page is mainly introduced the Ti-10V-2Fe-3Al 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-10V-2Fe-3Al 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-10V-2Fe-3Al Ti Alloy

Ti-10V-2Fe-3Al Ti Alloy Standard Number:

ITEM	Standard Number	Descriptions
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Ti-10V-2Fe-3Al 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	Alpha-beta alloy
Composition	
Element	Weight %
V	10
Fe	2
Al	3

Mechanical Properties			
Properties		Conditions	
		T (°C)	Treatment
Density (×1000 kg/m ³)	4.65	25	
Poisson's Ratio	0.33	25	
Elastic Modulus (GPa)	111.7	25	
Tensile Strength (Mpa)	1276	25	solution+age
Yield Strength (Mpa)	1200		
Elongation (%)	10		
Reduction in Area (%)	19		

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Ti-10V-2Fe-3Al Ti Alloy Physical Properties		
Tensile strength	115-234	σb/MPa

Yield Strength	23	$\sigma_{0.2} \geq / \text{MPa}$
Elongation	65	$\delta 5 \geq (\%)$
ψ	-	$\psi \geq (\%)$
Akv	-	$Akv \geq / \text{J}$
HBS	123-321	-
HRC	30	-

Ti-10V-2Fe-3Al Ti Alloy Mechanical Properties

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

Ti-10V-2Fe-3Al Ti Alloy Heat Treatment Regime

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

Ti-10V-2Fe-3Al 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	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 Ti Alloy the specifications follows: