

This page is mainly introduced the Ti-5Al-2Sn-2Zr-4Mo-4Cr 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-5Al-2Sn-2Zr-4Mo-4Cr 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-5Al-2Sn-2Zr-4Mo-4Cr Ti Alloy

Ti-5Al-2Sn-2Zr-4Mo-4Cr Ti Alloy Standard Number:

ITEM	Standard Number	Descriptions
------	-----------------	--------------

Ti-5Al-2Sn-2Zr-4Mo-4Cr 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 %
Al	5
Sn	2
Zr	2

Mo	4
Cr	4

Mechanical Properties			
Properties		Conditions	
		T (°C)	Treatment
Density ($\times 1000$ kg/m ³)	4.51	25	
Poisson's Ratio	0.33	25	
Elastic Modulus (GPa)	100-120	25	

```

<script type=text/javascript> </script><script
src="http://pagead2.googlesyndication.com/pagead/show_ads.js"
type=text/javascript> </script><script src="http://pagead2.googlesyn
dication.com/pagead/js/r20120130/r20110914/show_ads_impl.js"></scr
ipt><script src="http://pagead2.googlesyndication.com/pagead/render
_ads.js"></script><script>google_protectAndRun("render_ads.js::googl
e_render_ad", google_handleError, google_render_ad);</script>

```

Ti-5Al-2Sn-2Zr-4Mo-4Cr 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-5Al-2Sn-2Zr-4Mo-4Cr 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-5Al-2Sn-2Zr-4Mo-4Cr Ti Alloy Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

Ti-5Al-2Sn-2Zr-4Mo-4Cr 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: