

This page is mainly introduced the **Ti-6Al-6V-2Sn-0.75Cu 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-6Al-6V-2Sn-0.75Cu 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-6Al-6V-2Sn-0.75Cu Ti Alloy

Ti-6Al-6V-2Sn-0.75Cu Ti Alloy Standard Number:

ITEM	Standard Number	Descriptions
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Ti-6Al-6V-2Sn-0.75Cu 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

Ti-6Al-6V-2Sn-0.75Cu Ti Alloy

Our advantages

Ti-6Al-6V-2Sn-0.75Cu properties and heat treatment forged piece, Including **Ti-6Al-6V-2Sn-0.75Cu** application and specifications, We have all specifications□Including **Ti-6Al-6V-2Sn-0.75Cu steel plate**, **Ti-6Al-6V-2Sn-0.75Cu sheet**, **Ti-6Al-6V-2Sn-0.75Cu square steel**, **Ti-6Al-6V-2Sn-0.75Cu flat bar**, **Ti-6Al-6V-2Sn-0.75Cu round bar**, **Ti-6Al-6V-2Sn-0.75Cu forgings**, we can own production and sales.

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Introduction to Our Products:

Specialized high quality steel

We have the advantages of equipment, technologies and price

forged/hot rolling/ extrusion of steel

We can produce the Ti-6Al-6V-2Sn-0.75Cu has the following specifications:

Round bar steel: 1mm to 3000mm

Square-shape steel: 1mm to 2000mm

Plate steel: 0.1mm to 2500mm

Width: 10mm to 2500mm

Lenth: We can supply any lenth based on the customer's requirement.

Forging: Shafts with flanks/pipes/tubes/slugs/donuts/cubes/other shapes

Tubings: OD: ϕ 6-219 mm, with wall thickness ranging from 1-35 mm.

Finished goods condition: hot forging/hot rolling + annealing/normalizing + tempering/quenching + tempering/any conditions based on the customer's requirement

Surface conditions: scaled (hot working finish)/ground/rough machining/fine machining/based on the customer's requirement

Furnaces for metallurgical processing: electrode arc + LF/VD/VOD/ESR/Vacuum consumable electrode.

Ultrasonic inspection: 100% ultrasonic inspection for any imperfections or based on the customer's requirement
Excellent service for all kinds of industries, with advantages of technologies, equipment and price.

We serve you with our honesty, integrity, and professionalism.

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Chemical composition % of the ladle analysis of grade Ti-6Al-6V-2Sn-0.75Cu and

Standards

Category	Titanium Alloy
Class	Wrought
Type	Alpha-beta alloy
Designations	United States: MIL-T-9046, AMS

	4971, AMS 4918, MIL-T-9047, AMS 4978, AMS 4979
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Composition

Element	Weight %
Al	6
V	6
Sn	2
Cu	0.75

Mechanical Properties

Properties		Conditions	
		T (°C)	Treatment
Density (×1000 kg/m ³)	4.54	25	

Ti-6Al-6V-2Sn-0.75Cu 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-6Al-6V-2Sn-0.75Cu 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-6Al-6V-2Sn-0.75Cu Ti Alloy Heat Treatment Regime

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

Ti-6Al-6V-2Sn-0.75Cu 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	$\Phi 8$ -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

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