



ASTM B432 Titanium Copper Alloy Plate C11000 C12200 **Material**

Basic Information

- Place of Origin:
- Brand Name:
- CDX

China

- ISO9001:2015 certification • Certification: CDX-FH-2021-39
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Supply Ability:
- 5 piece Negotiable plywood case
- 5-25 working days
- 500 piece/week



Product Specification

- Keyword:
- Standard:
- Base:
- STEEL:
- Base Material:
- Custom Sample:
- Highlight:

- Large Area Copper Steel Composite Plate Copper Aluminum Composite Plate
 - GB/T12769-2003 ASTM B432
 - Cu(T2TU2)
 - 0.5to 3.6mm
 - C11000 C12200, Ti-Cu, Ti-Steel, Ti-Al, Ti-Ni
- OEM ODM
 - C11000 Titanium Copper Alloy, C12200 Titanium Copper Alloy, **ASTM B432 Titanium Alloy Plate**



Large area copper steel composite plate copper aluminum composite plate

The general manufacturing methods of clad steel plate include: filling metal ingot rolling method, explosive compound method, rolling crimping method, surfacing method, etc. Considering the characteristics of titanium, explosive compounding method or rolling crimping method is often used in industry, while the actual production methods include explosive compounding method, and rolling crimping method includes thick plate rolling method and continuous hot rolling method. Explosive bonding method is usually carried out at room temperature, and rolling crimping method is to assemble the plate, heat and roll.



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Key points of explosive composite method: first, keep a certain interval between the two metal plates to be crimped, and then put an appropriate amount of explosive on them. It is detonated by one end of the explosive, and the explosion speed is several kilometers per second. With this explosion, the titanium plate can collide from the angle of the base steel plate. At this collision point, the base steel plate and titanium plate show fluid behavior due to very large deformation speed and ultra-high pressure. The oxide film and gas adsorption layer on the two metal surfaces are eliminated as metal jet, and the joint between clean surfaces is completed in an instant, which is called cold joint.

The titanium steel composite plate manufactured by this method can continue hot rolling until the plate thickness is 4mm, so it is also called explosive composite method.

Titanium copper composite plate thick plate rolling method

Thick plate rolling method initially assembled titanium plate (composite) and steel plate (substrate) with embedded slab. At this time, a suitable intermediate embedded material is placed between the titanium plate and the steel, and then electron beam welding is adopted under high vacuum. Finally, after heating in the heating furnace, it is forced to roll to the required thickness on the thick plate mill, so that the titanium plate and the steel plate are really joined. Finally, cut the periphery and separate it into 2 plates.

Continuous hot rolling of titanium copper composite plate

The continuous hot rolling method is basically the same as the thick plate rolling method. The difference is that the steel plate is added in the middle of the two plates, which is arc welded in the atmosphere. Finally, it is continuously rolled to the required thickness on the continuous hot rolling mill and taken out in the form of coil. Finally, cut the periphery and separate it into 2 plates.

Quality & Inspection:

1. 100% inpection of verify material grade.
 2. Dimension controlling during fabricating and finished.

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 All of the products have been 100% tested before shipping. Packed in Fumigation-free plywood box. Third party inspection available. 	
Welcome to contact us for further information	
ZAMAYA Baoji Luox Quality Metals Co., Ltd.	
🕓 +8613911115555 🛛 🔄 test@test.com 📀 titanium-part.com	
GAOYA INTERSECTION, BAOTAI ROAD GAOXIN DISTRICT, BAOJI SHAANXI CHINA	