

Titanium - Fabrication and use of Titanium Alloys

Posted on Apr 30, Posted by [P&A International](#) Category [General Talk](#)



P&A International is a leading Titanium Supplier & Distributor of Titanium Alloy and other Titanium Products. Through designing, machining, surface finishing, fabricating & other value-added processes, we are able to manufacture titanium products to your specific needs. As well as we can supply the titanium & titanium alloys from our existing product ranges for your applications.

About Titanium

1. Corrosion Resistance

Titanium is a material with excellent corrosion resistance. It is able to withstand attack by acids, chlorine elements in water and fluorine and its compounds. Titanium actually forms a passive oxide layer when it comes into contact with any oxygen a property which serves to enhance its corrosion resistance even further. It is thus understandable why such a material would be desired in such oxygen rich environments as the human body.

2. High Strength

Titanium is an extremely strong material. Its strength matches that of a common low grade steel alloys and as a result titanium is extensively used in aerospace and industrial applications.

3. High Strength- to-Weight Ratio

This is the property which separates Titanium from other high strength materials such as Steel. Titanium has the amazing property of being very high strength whilst also being very light. Without labouring too much over the physics behind this phenomenon this is simply due to the low density nature of Titanium materials.

5. Biocompatibility

Important property to mention in this article is that the human body LIKES titanium. When inserting materials into the body it is vital to choose a material which can be fully integrated into the body. So far research has shown Titanium to be the only material able to undergo this process of osseointegration. Titanium implants heal with the jaw until they become part of the jaw itself with all the same elements you would expect from a functioning body part including links to the bodies nervous and circulation systems. This integration means that titanium dental implants are not just there to improve your mouth's aesthetics or to act as a structural bridge – what titanium provides is the ability to recreate a fully functioning tooth and therein lies the beauty of this amazing material.

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Titanium Fasteners



Titanium Anode



Designation	Specification
TA1-TA4,GR1-GR5, GR7,GR9,GR7, GR11,GR12	GB/T3622-1999,ASME SB265,ASTM B265,AMS491
	Dimension
	Thk.0.03-0.5xCoil/≤200mm Thk.0.8-2x1000x≤3000 Thk.3.0-5.0x1250x≤3500mm Thk.6.0-50x≤2500x≤

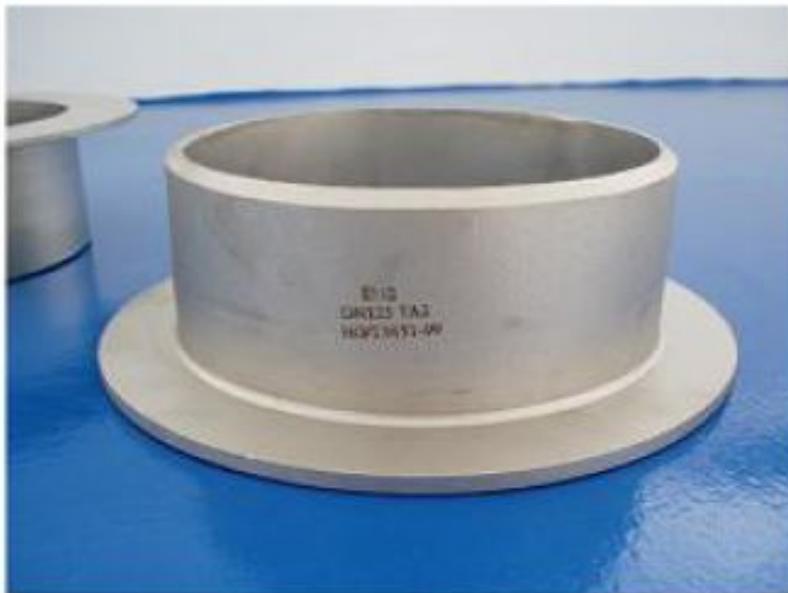
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Comcemtric Reducer



Titanium Elbow



Titanium Stub end



Titanium Tee joint

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