

Titanium and Titanium Alloy Tubes Gr.1, Gr.2, Gr.3, Gr.5, Gr7, Gr9, Gr12, Gr.16



Titanium and Titanium Alloy Tubes Gr.1 Gr.2

Titanium and Titanium Alloy Tubes

Standard: ASTM B338 / ASME SB338, ASTM B861/ ASME SB861, GB/T3625-2007 GB/T3624-2020

Type: Seamless and Welded

Description Name: Titanium and titanium alloy tubes, titanium tubes, Gr.1 Titanium tubes, Titanium tubes for heat exchanger, titanium tubes for condenser.

Diameter range: 6-219mm

Thickness range: 0.5-18mm

Shape: Round

Length: Single random length/ Double random length or as customer's actual request. Max length 12000 mm.

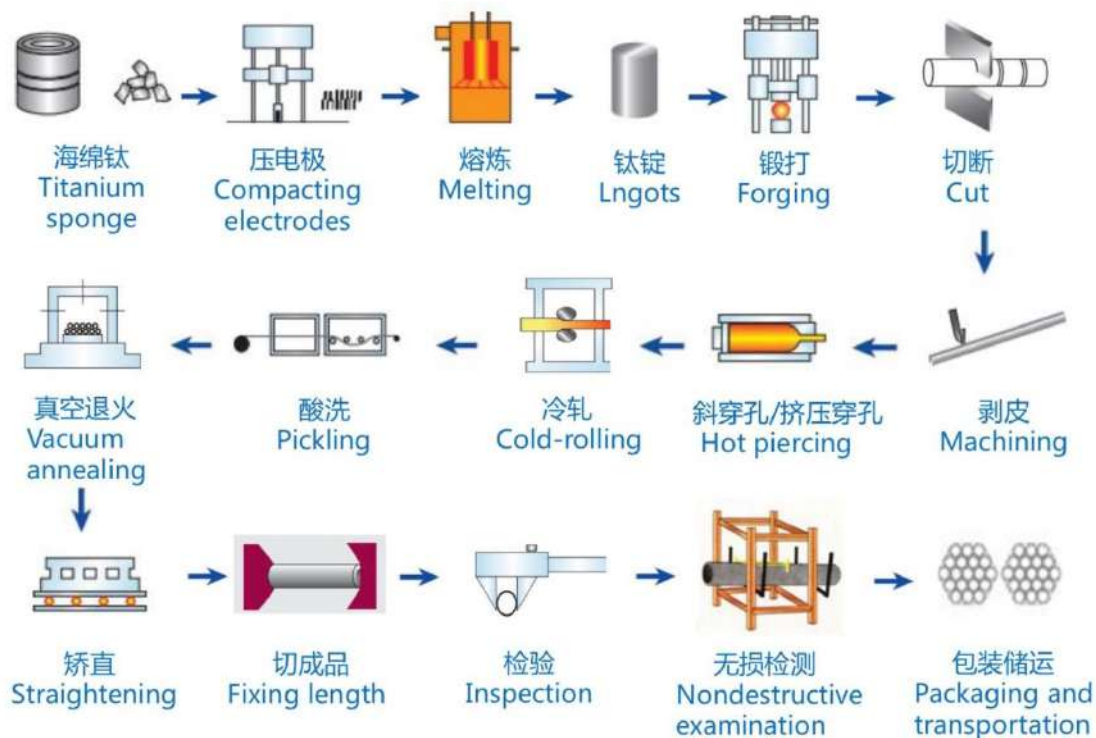
Titanium and Titanium Alloy Tubes Chemical Composition

Element Type	N	C	H	Fe	O	Al	V	Mo	Ni	Pd	Ti
GR.1	≤0.03	≤0.08	≤0.015	≤0.2	≤0.18						Residual
GR.2	≤0.03	≤0.08	≤0.015	≤0.3	≤0.25						Residual
GR.3	≤0.05	≤0.08	≤0.015	≤0.3	≤0.35						Residual
GR.7	≤0.03	≤0.08	≤0.015	≤0.3	≤0.25					0.12-0.25	Residual
GR.9	≤0.02	≤0.08	≤0.015	≤0.25	≤0.15	2.5-3.3	2.0-3.0				Residual
GR.12	≤0.03	≤0.08	≤0.015	≤0.3	≤0.25			0.2-0.4	0.6-0.9		Residual
GR.16	≤0.03	≤0.08	≤0.015	≤0.3	≤0.25					0.04-0.08	

Titanium and Titanium Alloy Tubes Tensile Requirements

Type	Tensile Testing		
GR.1	$\sigma_b \geq 240 \text{ Mp a}$	$138 \text{ Mp a} \leq \sigma_{0.2} \leq 310 \text{ Mp a}$	$\delta \geq 24\%$
GR.2	$\sigma_b \geq 345 \text{ Mp a}$	$275 \text{ Mp a} \leq \sigma_{0.2} \leq 450 \text{ Mp a}$	$\delta \geq 20\%$
GR.3	$\sigma_b \geq 450 \text{ Mp a}$	$380 \text{ Mp a} \leq \sigma_{0.2} \leq 550 \text{ Mp a}$	$\delta \geq 18\%$
GR.7	$\sigma_b \geq 345 \text{ Mp a}$	$275 \text{ Mp a} \leq \sigma_{0.2} \leq 450 \text{ Mp a}$	$\delta \geq 20\%$
GR.9A	$\sigma_b \geq 620 \text{ Mp a}$	$483 \text{ Mp a} \leq \sigma_{0.2}$	$\delta \geq 15\%$
GR.9B	$\sigma_b \geq 860 \text{ Mp a}$	$725 \text{ Mp a} \leq \sigma_{0.2}$	$\delta \geq 10\%$
GR.12	$\sigma_b \geq 483 \text{ Mp a}$	$345 \text{ Mp a} \leq \sigma_{0.2}$	$\delta \geq 18\%$
GR.16	$\sigma_b \geq 345 \text{ Mp a}$	$275 \text{ Mp a} \leq \sigma_{0.2} \leq 450 \text{ Mp a}$	$\delta \geq 20\%$

Titanium and Titanium Alloy Tubes Production Process



Titanium and titanium tubes production process

Titanium and Titanium Alloy tubes Production Capability and Equipment



Titanium and Titanium Alloy Tube Extrusion Punch



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Titanium and Titanium Alloy Tube LG40 Automatic Rolling Machine

Titanium and Titanium Alloy Tubes Test

- Flattening Test
- Flaring Test
- Hydrostatic or Nondestructive Testing

Titanium and Titanium Alloy Tubes Photos



Titanium and Titanium Alloy Tubes Inspection



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Titanium and Titanium Alloy Tubes Gr.12

Read more information of this product

- [*Titanium and Titanium Alloy Tubes*](#)

Related products

Titanium Alloy Tubes

- [*ASTM B338 GR.1 GR.2 GR.3 Titanium Alloy Tubes*](#)
- [*Seamless and Welded Titanium Alloy tubes*](#)
- [*Heat Exchanger and Condenser tubes*](#)

Cold Drawn precision tubes

- [*JIS G3445 STKM11A, STKM12C, STKM12A Steel Tubes*](#)
- [*EN10305-1 Seamless Cold Drawn Tubes*](#)
- [*DIN2391 Seamless Precision Steel tubes*](#)

Carbon steel

- [*ASTM A519 ASME SA519 SAE1010 Seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1020 seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1026 seamless tubes and pipes*](#)
- [*ASTM A519 ASME SA519 SAE1035 seamless tubes and pipes*](#)



- [ASTM A519 ASME SA519 SAE1045 seamless tubes and pipes](#)
- [ASTM A519 ASME SA519 SAE4130 seamless tubes and pipes](#)
- [ASTM A179 / ASME SA179 Seamless tubes](#)
- [ASTM A192 / ASME SA192 Seamless boiler tubes](#)
- [ASTM A210 / ASME SA210 GRADE A1 Seamless tubes](#)
- [ASTM A210 / ASME SA210 GRADE C Seamless tubes](#)

Alloy steel

- [ASTM A213 T11 T12 T22 Seamless alloy tubes](#)
- [ASTM A 213/A 213M T2, T5, T5b, T9, T91 Seamless Alloy Steel tubes](#)
- [ASTM A335 P1, P2, P5, P9 Seamless alloy pipes](#)
- [ASTM A335 P11, P12, P22, P91 seamless alloy pipes](#)
- [ASTM A209 ASME SA209 T1 tubes](#)

Stainless steel and Duplex

- [ASTM A269 Stainless Steel Tubes](#)
- [ASTM A213 Stainless Steel Tubes](#)
- [ASTM A249 Stainless Steel Tubes](#)
- [ASTM A270 Sanitary Stainless Tubing](#)
- [ASTM A312 Stainless Steel Pipes](#)
- [ASTM A789 Duplex Stainless Tubing](#)

Copper and Brass

- [ASTM B111 Copper and Brass Tubes](#)

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About CTS TUBES

CTSTUBES provide a wide range of steel products as Steel Pipes, Seamless Tube and Seamless Pipes, Alloy Pipes, Pipe Fittings, Stainless Steel Pipe, Copper Tube and Titanium Alloy Tube used in the industry, construction etc. We are looking forward to getting in contact by phone or email and we hope that you enjoy our website. More than ten years of profound knowledge turn CTS TUBES to your partner as trading house for tubes, fittings and stainless steel. The name CTS TUBES stands for certified quality, because of that, all products of our wide range consist to demanding norms and the highest standards. CTS TUBES also stands for know-how, effective service, and best solutions for your profit. Our qualified team in our export department in China is always at your disposal and ready to help you. Get in touch if you are interested in our products or cooperation.

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