Properties and materials of titanium

(1) Specific gravity:	4.51 and about 60% of the stainless steel ratio, lightweight.
(2) Thermal conductivity:	Equivalent to stainless steel
(3) Thermal expansion coefficient:	1/2 of stainless steel, almost equivalent to glass and concrete.
(4) Corrosion resistance:	No rust at all.
(5) Main applications:	General parts, Aircraft parts, Gas turbine parts, Space equipment, Automobile engine parts, Artificial bone, Marine equipment
(6) Magnetic:	Fully nonmagnetic
(7) Processability:	Equivalent to stainless steel.

Shape	Type	Standard	Supplement
Plate material	Sheet material products	JIS H4600 TP270C	Materials such as JIS-Type 1 with high workability and high corrosion resistant titanium etc. Mainly JIS-Type 2 with high versatility.
		JIS H4600 TR340C&H	
	Coil products	JIS H4600 TR340C&H	
Bar material	Pure titanium	JIS H4650 TB340	Materials such as ASTM F136 (Ti + 6Al - 4V ELI) for medical use, ASTM 1295 (Ti + 6Al - 7Nb) in addition to general pure titanium JIS-Type 2 and alloy ASTM Gr.5 (Ti + 6Al + 4V)
	Titanium alloy	ASTM B348 Gr.5	
		ASTM F136 ASTM F1295	
Tube material	For heat exchange	JIS H4631 TTH340W	The most common JIS-Type 2 material.
	For piping	JIS H4635 TTP340W	

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