

INA

TITANIUM GR.1

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CORROSION RESISTING ALLOYS WITH LOW DENSITY

Titanium Alloy Grade 1 is "unalloyed" titanium offering optimum ductility and cold formability. The material has high impact toughness and is readily weldable. The material is capable of deep drawing, and used for plate, frame, and tube heat exchangers, and also is used as plate for explosive bonding for clad plate. The material is castable and is sometimes utilized "as cast" in dental applications. The alloy is available as castings, wire, welded tube, bar, plate, sheet, forgings, and billet.

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Chemical Properties

С	Fe	0	Н	N	Ti
0.1 Max	0.2 Max	0.18 Max	0.015 Max	0.03 max	Balance

Minimum Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	
Min 0.2% Mpa	Min Mpa	Min %	Min %	
170	240	24	30	

Typical Mechanical Properties

Yeild strength	Tensile strength	Elongation	Reduction	
Min 0.2% Mpa	Min Mpa	Min %	Min %	
221	345	37		

Specification:

Product Form:

ASTM B265 (Grade 1)	Strip, Sheet, and Plate
ASTM B338 (Grade 1)	Seamless Welded Tubes
ASTM B348 (Grade 1)	Bar and Billet
ASTM B363 (Grade 1)	Fittings
ASTM B367 (Grade 1)	Castings
ASTM B381 (Grade 1)	Forgings
ASTM B861 (Grade 1)	Seamless Pipe
ASTM B862 (Grade 1)	Welded Pipe
ASTM F67 (Grade 1)	Unalloyed Titanium for Surgical Implants Weld Wire
AWS A5.16 (ERTi-1)	Weld Wire
ISO 5832-2 (Grade 1)	Unalloyed Titanium for Surgical Implants

Equivalent Designation

UNS R50350 Din Ti 1 W.Nr. 3.7025 BS 2TA1 BTI-0 Italian (UNI 10221) Ti1 - Type 1 Aerospace German WL 3.7024

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