

The most commonly used grade for chemical process vessels and sea water applications.

Btu •ft/ft² • hr°F Modulus of Elasticity,

psi x 10⁶

Excellent corrosion resistance to environments from highly oxidizing to mildly reducing, including chlorides. Used in continuous service up to 800°F, and intermittent service to 1000°F.

Anneal 1200-1450°F for 15 minutes to 2 hours, air cool. Stress relieving is done at 900-1100°F for 30 minutes. Titanium Grades 1, 2, 3, and 4 cannot be strengthened by heat treatment.

The crystal structure of Grade 2 is 100% alpha (hexagonal close packed) at room temperature. Blocking, 1600-1700°F finishing 1500-1600°F.

opecifications		INS R50400 W. Nr./EN : SB-265, SB-338, SB-348,				8, B 363				
Chemical Composition, %		C N	0	Н	Fe	Others, total	Ti			
	MIN		-	-	_	-	-			
	MAX	0.08 0.05	0.2	0.015	0.1	0.30	balance			
eatures	• Tita	ellent corrosion resista nium Grade 2 is slightl	ly stronger than T		xidizing to mildly re	ducing, including	chlorides			
Applications		 Chemical process tanks and equipment Aerospace ducting 								
	• Muf	Mufflers and exhaust components								
		Medical and dental implants								
	• Hea	• Heat exchangers								
Physical Properties	Density	Density: 0.163 lb/inch ³ Nominal Beta Transus: 1680°F Approx Melting Point: 3020°F Grain Size: ASTM 6 or finer								
	Tempe	erature, °F	100	200	400	600	1000			
		cient of Thermal Expansion, ?F x 10 ^{.6}	-	4.8	5.01	5.11	5.4			
	Therm	nal Conditioning	12.5	12.5	1.8	1.2	-			

15.5

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Mechanical Properties

Specified Room Temperature, AMS 4902

Tensile Min, ksi	50
0.2% Yield Strength, ksi	40 - 60
Elongation, min in 2 inch, %	20

Typical Elevated Temperature Properties

Temperature, °F	200	400	600
Tensile Strength, ksi	57	41	32
0.2% Yield Strength, ksi	40	24	41
Elongation, %	32	15	39



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