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AM 64 gr 23 Data Sheet

AM 64 gr 23 is the low interstitial version of Ti-6Al-4V, for maximum toughness. Preferred for marine and cryogenic applications. This grade is normally used in the annealed condition. AM 64 gr 23 is the preferred choice for the medical implant field

Alloy Highlights

- Corrosion Resistant
- Free from chloride stress corrosion cracking
- Good strength and toughness
- Resistant to erosion corrosion
- Resistant to corrosion fatigue

Typical Applications

- Turbine blades
- Cryogenics
- Chemical processing equipment
- Medical and dental implants

Mechanical Properties (after Heat Treat)	
Test	Result
Tensile Strength	174 +/-15 ksi
Yield Strength	153 +/-21 ksi
Elongation at break	7 +/-1%
Hardness (HRC)	43
Density (lb/in ³)	0.16

Chemistry		
Element	Range (%)	
	Min	Max
Al	5.50	6.50
V	3.50	4.50
N		0.03
C		0.08
H		0.012
Fe		0.25
O		0.13
Ti	Balance	
Res Each		0.10
Res Total		0.40

Applicable Chemistry Specifications

AMS 4907	AMS 4930	AMS 4928
ISO 5832-3	ASTM F136	ASTM B 348
EN 3.7164	UNS R56401	ASME SB 348

