

Specializing in Titanium and Super Alloys offering high strength and corrosion resistance materials necessary for the most challenging oil and gas environments

Titanium Alloy and Products

Ti 6Al-4V and Ti 6Al-4V Eli Bar, Billet and Plate

- .125" (3mm) diameter up to 14" (355mm) diameter
- Precision ground available, please inquire other sizes and dia

Brake Press Formed and Welded Titanium Pipe

- 6" (150mm) NPS to 36" (900mm) NPS
- .1875" (5mm) to 2" (50mm) Wall Thickness

Ti 6Al-2Sn-4Zr-6Mo Bar and Billet

Fittings and Flanges

Ti 6Al-6V-2Sn Bar and Billet

Seamless Titanium Pipe

Roll Formed and Welded Titanium Pipe (Gr 2)

- Typically 20' RL (6 meters) (inquire for longer)
- 1" (25mm) NPS to 36" (900mm) NPS
- Schedule 10S and 40S

- Available up to 20' RL (6 meters)
- .500" (13mm) NPS to 4" (100mm) NPS
- Schedule 10S, 40S, 80S and custom

ASTM Standards	B265 – Ti and Ti alloy strip, sheet and plate.	B338 – Seamless and welded Ti and Ti alloy tubes.	B861 – Seamless pipe.	B862 – Welded pipe.
B348 – Ti and Ti alloy bars and billets.	B363 – Seamless and welded Ti and Ti alloy wrought fittings.	B367 – Ti and Ti alloy castings	B381 – Ti and Ti alloy forgings	B863 – Ti and Ti alloy wire.

Ti Grades – 1-4 are pure Ti. Pure Ti is used due to its high corrosion resistance and alloyed because of its high strength to weight ratio	Gr 1 – Pure Ti, relatively low strength and high ductility. (Plate heat exchangers)	Gr 2 – Pure Ti most used. Good combination of strength, ductility, and weldability. (Piping systems, vessels)	Gr 3 – High strength, used for Matrix-plates in shell and tube heat exchangers.
Gr 5 – Most common Ti alloy. High strength and high heat resistance. (Aerospace and Oil & Gas, Medical)	Gr 7 – Superior corrosion resistance in reducing and oxidizing environments. (Chemical Industry)	Gr 9 – High strength and corrosion resistance. (Hydraulic piping)	Gr 23 (6-4Eli) – Greater ductility and fracture toughness compared to Gr 5.

22 Ti
Titanium
47.867

Additional Oil and Gas Alloys available. Please inquire for other alloys such K-500, 13-8, and 15-5.

28 Ni
Nickel
58.6934

Nickel Based Alloy Products

718 Bar and Billet

- Available .500" (13mm) – 10.0" (250mm) diameter (inquire for other sizes)
- AMS, ASTM, NACE and OEM specifications

625 Bar and Billet

- Available .500" (13mm) – 10.0" (250mm) diameter (inquire for other sizes)
- AMS, ASTM, NACE and OEM specifications

ATI S240® Bar and Billet (Superior Strength to 13-8)

- A martensitic precipitation-hardening stainless steel with tensile strength of 240 ksi (1,655 MPa), high fracture toughness, and good corrosion and stress corrosion cracking resistance. Available in the solution annealed and solution annealed and aged condition.

	ATI S240® H950	ATI S240® H950	13-8 H950	13-8 H950	ATI S240® H1000	ATI S240® H1000	13-8 H1000	13-8 H1000
UTS	243 ksi	1675 MPa	220 ksi	1515 MPa	225 ksi	1551 MPa	205 ksi	1415 MPa
Yield Stress	231 ksi	1593 MPa	205 ksi	1415 MPa	215 ksi	1482 MPa	190 ksi	1310 MPa
El (%)	12	12	10	10	14	14	10	10
RA (%)	46	46	45	45	56	56	50	50

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