

Material Name: Titanium Grade 12 / UNS R53400 / 3.7105

Applicable Standards: ASTM B265 / ASTM B348 / ASTM B338

General Description

Titanium Grade 12 is a corrosion-resistant titanium alloy containing nickel and molybdenum. It offers improved strength over commercially pure titanium while maintaining excellent corrosion resistance, particularly in crevice corrosion and elevated-temperature environments.

Chemical Composition (Typical, %)

C	O	N	H	Fe	Mo	Ni	Ti
≤ 0.08	≤ 0.25	≤ 0.03	≤ 0.015	≤ 0.30	0.2-0.4	0.6-0.9	Balance

Mechanical Properties (Typical, Annealed)

Tensile Strength	Yield Strength (0.2%)	Elongation
≥ 480 MPa	≥ 345 MPa	≥ 18%

Available Product Forms

- Sheets
- Bars
- Tubes & Fittings
- Flanges
- Fasteners