

Specifications:

UNS R58210
ASTM B 265

Properties:

Tensile Strength: 115,000-140,000 psi
Yield Strength: 110,000-135,000 psi
Elongation: 12%

Description:

Beta 21S is a heat treatable, metastable titanium alloy developed as an oxidation-resistant, aerospace material and as a matrix for metal-matrix composites. Beta 21S offers the good formability and weldability of a beta alloy, but with greatly improved oxidation resistance and creep strength. Beta 21S is known to have a resistance to aircraft hydraulic fluid, which is why it is often used in the aerospace industry.

Available in multiple sizes and diameters in wire, coil, strip, foil, ribbon.

Chemical Composition (Wt%):

Ti	Al	Nb	Si	Mo	Fe	O	C	N	H	Other element each	Other element total
BAL	2.5-3.5	2.4-3.2	0.15-0.25	14.0-16.0	0.4	0.11-0.17	0.05	0.05	0.015	0.10	0.40

Note: Single values are maximum unless otherwise noted.

Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126; OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.