

15-3-3-3 Titanium is a high strength, heat treatable, metastable beta titanium alloy that can be successfully cold rolled to the dimensions shown below.

Dimensional

| Thickness | Maximum Width |
|-------------------------------------|--|
| 0.025" - 0.003" (.635 - .08mm) | 17.5" (444.5mm) as rolled edge 17.0" (431.8mm) with a slit edge |
| 0.0029" - 0.001" (.079 - .0254mm) | 16.5" (419.1mm) as rolled edge 16.0" (406.4mm) with a slit edge |
| 0.0009" - 0.0004" (.025 - .01mm) | 15.5" (393.7mm) as rolled edge 15.5" (393.7mm) with a slit edge |
| 0.00039" - 0.00008" (.099 - .002mm) | 4.25" (107.95mm) as rolled edge 4.0" (101.6mm) with a slit edge |

Typical Mechanical Properties (Solution Annealed)

| UTS ksi (MPa) | YS ksi (MPa) | Elongation % |
|-------------------|-------------------|------------------|
| 102-137 (703-945) | 100-126 (689-869) | Information only |

Chemical Composition (wt %)

| Element | Minimum | Maximum | Element | Minimum | Maximum |
|---------|---------|---------|-----------------|---------|---------------|
| N | - | .05 | O | - | .13 |
| C | - | .05 | AL | 2.5 | 3.5 |
| H | - | .015 | V | 14.0 | 4163.0 |
| Fe | - | .25 | Sn | 2.5 | 3.5 |
| Cr | 2.5 | 3.5 | Residual - each | - | .1 (.4 total) |

Physical Properties

| | |
|--------------------------|--|
| Density | 0.173 lb/in ³ (4.78 g/cm ³) |
| Beta Transus | 1400 ±25°F (760 ±10°C) |
| Melting (liquidus) Point | 3034°F (1668°C) |
| Magnetic Permeability | Nonmagnetic |
| Modulus of Elasticity | 11.9 x 10 ⁷ lb/in ² (82x10 ³ MPa) |

TYPICAL AEROSPACE APPLICATIONS

- Honeycomb structures
- Ductwork
- Propellant tanks
- Springs

DELIVERY

Availability

Global.

Size

Available in thicknesses and widths per table.

Temper

Available in the annealed or as rolled condition.

Surface

Clean uniform surface, 1Ra - 16Ra without discoloration or surface defects. Available with a slit edge (typical burr <10% of strip thickness) or an as-rolled edge.

Packing

Properly packaged to avoid damage in transit. International packaging available upon request.

Conformance

AMS4914 (latest revision) with exceptions per ED-RP-0001, DFARS Compliant.

Certifications

ISO9001, AS9001, Nadcap.