

DESCRIPTION: Low mechanical resistance, soft, the purest of all titanium, very ductile and easy cold formability.

SHEET DIMENSION 12 x 12 inch / 24 x 24 inch

THICKNESS(Inch): $\frac{1}{8}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{3}{16}$ $\frac{1}{2}$ $\frac{3}{4}$ 1

*We have different measures according to consumer needs.

CHEMICAL COMPOSITION

PERCENTAGE PER WEIGHT	
C	0,02
H	0,015
Fe	0,3
N	0,03
O	0,25
Ti	BALANCE

PHYSICAL PROPERTIES

ELASTICITY MODULE IN TENSION	103 GPa 14,9 X 10 ³ ksi
DENSITY	0,163 lb/in ³ 4,51 g/m ³
SPECIFIC HEAT (32 - 212°F)	0,124Btu/lb/°F
ELECTRICAL RESISTIVITY	a 68°F: 56 microhm - cm
MELTING POINT	1.660°C
THERMAL CONDUCTIVITY	9,5 Btu/hr·ft·°F
LINEAR THERMAL EXPANSION COEFFICIENT	8,6 x 10 ⁶ /°C (0-100°C)

MECHANICAL PROPERTIES

MECHANICAL PROPERTIES AT ROOM TEMPERATURE	
0.2% Offset elastic limit	
Ksi	20
Mpa	276
Tensile strength	
Ksi	50
Mpa	345
Elongation	20
Area reduction	30

ADVANTAGES

- Excellent weldability.
- High corrosion resistance
- Ductility

APPLICATION

- Electronic Industry
- Energy Industry
- Automotive Industry
- Development of medical and chiropractic instruments

STÁNDARDS

AMS 4902, AMS 4941, AMS 4942 / ASTM B337, ASTM B338, ASTM B348, ASTM B348 (2), ASTM B381, ASTM F467 (Ti-2), ASTM F468 (2), ASTM F67, ASTM F67 (2) / DIN 3.7035 / MIL T-9046, MIL T- 9047 / UNS R50400



DESCRIPTION: Grade 3 titanium is stronger than the grade 1 and 2, similar in ductility, it has greater mechanical and is slightly less formable.

Slightly higher strength than titanium gr. 2. Similar corrosive resistant. Good weldability and cold formability.

DIMENSION PER SHEET: 12 x 12 inch / 24 x 24 inch

THICKNESS(Inch): $\frac{1}{8}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{3}{16}$ $\frac{1}{2}$ $\frac{3}{4}$ 1

*We have different measures according to consumer needs.

CHEMICAL COMPOSITION

PERCENTAGE PER WEIGHT	
C	0,1
H	0,015
Fe	0,3
N	0,05
O	0,35
Ti	BALANCE

PHYSICAL PROPERTIES

ELASTICITY MODULE IN TENSION	105 GPa 15.200 ksi
DENSITY	0,163 lb/in ³ 4,42 g/m ³
SPECIFIC HEAT (32 - 212°F)	0,124 Btu/lb/°F 0,523 J/g-°C
ELECTRIC RESISTIVITY	a 20°C: 5,4e-005ohm - cm
MELTING POINT	1.660°C
THERMAL CONDUCTIVITY	19,9 W/m -K 138 BTU - in/hr-ft-°F
LINEAR THERMAL EXPANSION COEFFICIENT	8,6 µm/m °C 4,78 µin/in - °F

MECHANICAL PROPERTIES

MECHANICAL PROPERTIES AT ROOM TEMPERATURE	
0.2% Offset elastic limit	
psi	54.700 - 75.400
Mpa	375 - 520
Tensile strenght	
psi	63.800
Mpa	440
Elongation	18 %
Hardness	
Brinell	225
Rockwell	90

ADVANTAGES

- Excellent weldability.
- High corrosion resistance
- Ductility

APPLICATION

- Airframe Structures
- Equipment for processing chemicals
- Medical Industry
- Marine Environments

STANDARDS

UNS R50550 / W.N. 3.7055 / DIN Ti III

