

Think **future.** Think aluminium.

HEAD OFFICE | HULAMIN ROLLED PRODUCTS

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HULAMIN

T500 TANKER PLATE

ROLLED PRODUCTS

Think Future. Think Aluminium.

T500 TANKER PLATE

Hulamin's T500 is a superior structural alloy designed for road tankers transporting flammable substances. Its outstanding characteristics of high strength and formability result in improved toughness and a greater ability to withstand impacts. Applying the design criteria of the ADR regulations, T500 enables the use of aluminium alloy sheet in gauges as low as 5mm, and also complies with the requirements of EN 14286.

CHEMICAL COMPOSITION 5182 ALLOY

%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Each	Total	
min	-	-	-	0.2	4.85	-	-	-			Bal
max	0.2	0.35	0.15	0.5	5.0	0.1	0.14	0.1	0.05	0.15	

PHYSICAL PROPERTIES

Property	Value	Unit
Density	2.64	g/cm ³
Thermal Conductivity at 25°C	123	W/m.K
Electrical Conductivity	18	µs/m
Modulus of Elasticity	70	GPa
Coefficient of linear expansion	23.2 x 10 ⁻⁶	/°C
Melting Range	575 to 640	°C

MECHANICAL PROPERTIES

Temper O / H111	
Ultimate Tensile Strength (MPa)	280 min.
Yield strength min. (MPa)	125
Elongation min. A ₅ (%) - 4mm to 8mm thickness	26 min.
Minimum bending radius at 90° - 4mm to 8mm thickness	1t



Petrol Tankers

PROCESSING ATTRIBUTES

Characteristics	
Formability	Very good
Weldability (TIG/MIG)	Very good
Recommended filler alloy for TIG/MIG	5183 preferred also 5356

SIZES AVAILABLE

Thickness (mm)	Width (mm)	Length (mm)
3.0 to 8.0	1400 - 1910	2000 - 7500

BENDING

Recommended bending radius at 108°

Thickness (mm)	3 to 6	Over 6 up to 8
Bend Radius	1t	2t

BEND TEST

