

Aluminium Alloy AA-5754

H114 Treadplates

H111 Sheet/Plates



DESCRIPTION

Aluminium Alloy **AA-5754** has excellent corrosion resistance especially to seawater. The alloys high strength makes **AA-5754** highly suited to flooring applications in laboratory, marine and offshore use.

APPLICATIONS

AA-5754 is typically used in:

- Treadplate
- Shipbuilding
- Vehicle bodies
- Fishing industry equipment
- Food processing
- Welded chemical and nuclear structures

Please note that Mechanical Properties shown are for both **H111** & **H114** temper.

CHEMICAL COMPOSITION

Element	Composition %
Magnesium (Mg)	2.60 - 3.60
Chromium (Cr)	0.10 - 0.30
Manganese (Mn)	0.00 - 0.50
Iron (Fe)	0.00 - 0.40
Silicon (Si)	0.00 - 0.40
Zinc (Zn)	0.00 - 0.20
Titanium (Ti)	0.00 - 0.15
Copper (Cu)	0.00-0.10
Others (Total)	0.00 - 0.15
Other (Each)	0.00 - 0.05
Aluminium (Al)	Balance

SUPPLIED FORMS

At **Dinco Trading LLC** we stock Aluminium Alloy **AA-5754** in the form of Tread/Chequered plates in temper H114 and sheets/plates in temper H111

MECHANICAL PROPERTIES for Temper H111

Property	Value
Proof Stress	60 Min MPa
Tensile Strength	160 - 200 MPa
Elongation at 50 mm	15 Min %
Hardness Brinell	44 HB

MECHANICAL PROPERTIES for Temper H114

Property	Value
Proof Stress	80 Min MPa
Tensile Strength	190 - 260 MPa
Elongation at 50 mm	12 Min %
Hardness Brinell	52 HB

WELDABILITY

Weldability - Gas: Excellent
Weldability - Arc: Excellent
Brazeability: Poor
Weldability - Resistance: Excellent

FABRICATION

Machinability: Average
Workability – Cold: Very good

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.66 g/cm ³
Melting Point	600 °C
Thermal Expansion	24 x 10 ⁻⁶ /K
Modulus of Elasticity	68 GPa
Thermal Conductivity	147 W/m.K
Electrical Resistivity	0.049 x 10 ⁻⁶ Ω .m

SIZES RANGE FOR AA-5754

We stock Aluminium Alloy **AA-5754** at our warehouses in Dubai and Sharjah. Please contact us on sales@dinco.ae with your inquiries or call **04-3312182**, or visit: www.dinco.ae