

# Aluminium Alloy AA 5754 – H114/H111 Data Sheet

## DESCRIPTION

Aluminium Alloy **AA-5754** has excellent corrosion resistance especially to seawater. The alloy's 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

## WELDABILITY

Weldability - Gas: Average  
Weldability - Arc: Excellent  
Brazability: Poor  
Weldability - Resistance: Excellent

## FABRICATION

Machinability: Poor  
Workability – Cold: Average

## 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

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

## GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.66 g/cm <sup>3</sup>
Melting Point	600 °C
Thermal Expansion	24 x 10 <sup>-6</sup> /K
Modulus of Elasticity	68.0 GPa
Thermal Conductivity	147 W/m.K
Electrical Resistivity	0.049 x 10 <sup>-6</sup> Ω .m

## SIZES RANGE FOR AA 5754

We stock Aluminium Alloy **AA-5754** at our warehouses in Dubai & Sharjah. Please contact us on [sales@dinco.ae](mailto:sales@dinco.ae) with your inquiries or call: [04-3312182](tel:04-3312182) or visit [www.dinco.ae](http://www.dinco.ae)