

Aluminium

5754 H114 Sheet & Plate

Datasheet Updated
05 August 2021

RANGE

Sheet Size	Thicknesses
2000 x 1000	2.0mm - 6.0mm
2500 x 1250	1.5mm - 9.5mm
3000 x 1500	2.0mm - 6.0mm

SPECIFICATIONS

Commercial	5754 H114
EN	5754 H114

Excellent corrosion resistance for applications in the marine, nuclear, chemical and oil & gas industries.

CHEMICAL COMPOSITION

BS EN 573-3
Alloy 5754

Element	% Present
Iron (Fe)	0.00 - 0.40
Magnesium (Mg)	2.60 - 3.60
Chromium (Cr)	0.00 - 0.30
Manganese + Chromium (Mn+Cr)	0.10 - 0.60
Others (Total)	0.00 - 0.15
Silicon (Si)	0.00 - 0.40
Manganese (Mn)	0.00 - 0.50
Copper (Cu)	0.00 - 0.10
Other (Each)	0.00 - 0.05
Titanium (Ti)	0.00 - 0.15
Zinc (Zn)	0.00 - 0.20
Aluminium (Al)	Balance

ALLOY DESIGNATIONS

Alloy 5754 corresponds to the following standard designations and specifications *but may not be a direct equivalent*:

- A95754
- Al Mg3
- Al 3.1Mg Mn Cr
- AW-5754

TEMPER TYPES

The most common tempers for 5754 aluminium are shown below with H114 & (H111) being the most common treadplate temper.

- H114
- H22
- H24
- H26
- O
- H111

SUPPLIED FORMS

Alloy 5754 is typically supplied as treadplate.

- Sheet
- Plate

APPLICATIONS

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

CHARACTERISTICS

- Excellent weldability
- Good formability
- Excellent resistance to seawater & industrial chemical corrosion

MECHANICAL PROPERTIES

BS EN 485-2:

Aluminium Sheet 0.2mm to 6.00mm

Property	Value
Proof Stress	80 Min MPa
Tensile Strength	190 - 260 MPa
Elongation A50 mm	12 Min %
Hardness Brinell	52 HB

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon. Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

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