

Aluminium

5754 H24 Sheet & Plate

Datasheet Updated
11 January 2024

SPECIFICATIONS

Commercial	5754 H24
EN	5754 H24

Exceptional corrosion resistance ideal for applications in marine, nuclear, chemical, oil & gas.

CHEMICAL COMPOSITION

BS EN 573-3
Alloy 5754

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

ALLOY DESIGNATIONS

Alloy 5754 also 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.

- H22
- H24
- H26
- O
- H111

SUPPLIED FORMS

- 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

Sheet & Plate 0.2mm to 25mm

Property	Value
Proof Stress	160 Min MPa
Tensile Strength	240 - 280 MPa
Hardness Brinell	70 HB
Elongation A50 mm	6 Min %

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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