

Aluminium

5754 H22 Sheet & Plate

Datasheet Updated

11 January 2024

SPECIFICATIONS

Commercial	5754 H22
EN	5754 H22

Excellent resistance to corrosion, especially seawater. Ideal in the marine, nuclear, chemical and oil & gas industries.

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

Alloy 5754 is typically supplied as treadplate.

- Sheet
- Plate

APPLICATIONS

- High strength aerospace components
- Military vehicles
- Bridges
- Weapons manufacture
- Structural applications

CHARACTERISTICS

- Machinability of aluminium alloy 2014A is very good.
- Resistance to atmospheric attack is poor especially when exposed to water or salt environments. To protect against atmospheric corrosion in storage, lightly coat with lanolin based protective oil.
- Good hard anodising capability
- Good strength levels after heat treatment

MECHANICAL PROPERTIES

BS EN 485-2

Sheet & Plate 0.2mm to 40mm

Property	Value
Proof Stress	130 Min MPa
Tensile Strength	220 - 270 MPa
Hardness Brinell	63 HB
Elongation A50 mm	7 Min %

DISCLAIMER

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