

Aluminium

5052 H32 Sheet & Plate

Datasheet Updated
05 August 2021

RANGE

| Sheet Size | Thicknesses |
|-------------|---------------|
| 2500 x 1250 | 1.5mm - 3.0mm |

SPECIFICATIONS

| | |
|------------|----------|
| Commercial | 5052 H32 |
| EN | 5052 H32 |

Medium to high strength, non heat treatable aluminium alloy.

CHEMICAL COMPOSITION

BS EN 573-3
Alloy 5052

| Element | % Present |
|----------------|-------------|
| Manganese (Mn) | 0.00 - 0.10 |
| Iron (Fe) | 0.00 - 0.40 |
| Copper (Cu) | 0.00 - 0.10 |
| Magnesium (Mg) | 2.20 - 2.80 |
| Silicon (Si) | 0.00 - 0.25 |
| Zinc (Zn) | 0.00 - 0.10 |
| Chromium (Cr) | 0.15 - 0.35 |
| Others (Total) | 0.00 - 0.15 |
| Other (Each) | 0.00 - 0.05 |
| Aluminium (Al) | Balance |

ALLOY DESIGNATIONS

Alloy 5052 corresponds to the following standard designations and specifications *but may not be a direct equivalent*:

- Al Mg 2.5
- Al 2.5Mg Cr

TEMPER TYPES

The most common tempers for 5052 aluminium are:

- H32

SUPPLIED FORMS

- Treadplate/Patterned Sheet
- Sheet
- Plate

APPLICATIONS

- Treadplate
- Boilermaking
- Containers
- Nameplates
- Road Signs
- Architectural Panelling
- Welded Tubes
- Chemical Industry
- Irrigation
- Desalination units
- Pressure Vessels
- Rivets

CHARACTERISTICS

- Very good corrosion resistance to seawater and marine and industrial atmosphere
- Very good weldability and good cold formability
- Decorative finish
- Hard wearing
- Non-slip
- Corrosion resistant
- Low maintenance
- Anti-Static
- Lightweight

MECHANICAL PROPERTIES

BS EN 485-2

Sheet and Treadplate 0.2mm to 6.00mm

| Property | Value |
|------------------|---------------|
| Tensile Strength | 210 - 260 MPa |
| Proof Stress | 130 Min MPa |
| Hardness Brinell | 61 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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