

Aluminium

5251 H24 Sheet & Plate

Datasheet Updated
05 August 2021

SPECIFICATIONS

| | |
|------------|----------|
| Commercial | 5251 H24 |
| EN | 5251 H24 |

Medium strength aluminium alloy with good ductility.

CHEMICAL COMPOSITION

BS EN 573-3
Alloy 5251

| Element | % Present |
|----------------|-------------|
| Manganese (Mn) | 0.10 - 0.50 |
| Iron (Fe) | 0.00 - 0.50 |
| Copper (Cu) | 0.00 - 0.15 |
| Magnesium (Mg) | 1.70 - 2.40 |
| Silicon (Si) | 0.00 - 0.40 |
| Zinc (Zn) | 0.00 - 0.15 |
| Chromium (Cr) | 0.00 - 0.15 |
| Titanium (Ti) | 0.00 - 0.15 |
| Other (Each) | 0.00 - 0.05 |
| Others (Total) | 0.00 - 0.15 |
| Aluminium (Al) | Balance |

ALLOY DESIGNATIONS

Alloy 5251 corresponds to the following standard designations and specifications **but may not be a direct equivalent**:

- Al Mg2
- Al 2.0Mg 0.3Mn

TEMPER TYPES

The most common tempers for 5252 aluminium are:

- H22
- H24
- H26
- O

SUPPLIED FORMS

- Sheet
- Plate

APPLICATIONS

- Boats
- Panelling and pressings
- Marine structures
- Aircraft parts
- Vehicle panels
- Furniture tubing
- Silos
- Containers

CHARACTERISTICS

- Work hardening rapidly
- Readily weldable
- High corrosion resistance particularly in marine environments

MECHANICAL PROPERTIES

BS EN 485-2

Sheet & Plate 0.2mm to 12.5mm

| Property | Value |
|------------------|---------------|
| Proof Stress | 140 Min MPa |
| Tensile Strength | 210 - 250 MPa |
| Hardness Brinell | 62 HB |

DISCLAIMER

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