

## Aluminium

## 5251 Aluminium O Sheet & Plate

Datasheet Updated  
11 January 2024

### SPECIFICATIONS

Commercial	5251 O
EN	5251 O

Good formability and higher mechanical properties.

### 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 also 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 and Plate 0.2mm to 50.00mm

Property	Value
Proof Stress	60 Min MPa
Tensile Strength	160 - 200 MPa
Hardness Brinell	44 HB

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