RIGHTON BLACKBURNS
METALS AND PLASTICS

EXPERTISE COLLABORATION INTEGRITY

Aluminium | 6082 O Sheet & Plate

Datasheet Updated
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SPECIFICATIONS

Commercial	6082 O
EN	6082 O

Structural aluminium alloy with the highest strength in the 6000 series.

CHEMICAL COMPOSITION

BS EN 573-3
Alloy 6082

Element	% Present
Manganese (Mn)	0.40 - 1.00
Iron (Fe)	0.00 - 0.50
Magnesium (Mg)	0.60 - 1.20
Silicon (Si)	0.70 - 1.30
Copper (Cu)	0.00 - 0.10
Zinc (Zn)	0.00 - 0.20
Titanium (Ti)	0.00 - 0.10
Chromium (Cr)	0.00 - 0.25
Other (Each)	0.00 - 0.05
Others (Total)	0.00 - 0.15
Aluminium (Al)	Balance

ALLOY DESIGNATIONS

Aluminium alloy 6082 also corresponds to the following standard designations and specifications ***but may not be a direct equivalent***:

- AA6082
- HE30
- DIN 3.2315
- EN AW-6082
- ISO: Al Si1MgMn
- A96082

TEMPER TYPES

The most common tempers for 6082 aluminium are:

- T4
- T651
- O
- T6

SUPPLIED FORMS

- Sheet
- Plate

APPLICATIONS

- Highly stressed applications
- Trusses
- Bridges
- Cranes
- Transport applications
- Ore skips
- Beer barrels
- Milk churns

CHARACTERISTICS

- Excellent corrosion resistance
- Medium strength
- Good machinability. In the T6 and T651 temper, alloy 6082 machines well and produces tight coils of swarf when chip breakers are used.
- Good weldability

EMAIL: sales@rblimited.co.uk WEB: www.rightonblackburns.co.uk

MECHANICAL PROPERTIES

BS EN 485-2
Sheet 0.4mm to 6.00mm

Property	Value
Proof Stress	85 Max MPa
Tensile Strength	150 Max MPa
Hardness Brinell	40 HB