

🍪 EXPERTISE 🌐 COLLABORATION 🚳 INTEGRITY

Aluminium

Aluminium Alloy 6061 T6

Extrusions

Datasheet Updated 18 July 2022

| SPECIFICATIONS | |
|----------------|---------|
| Commercial | 6061 T6 |
| EN | 6061 T6 |

Most versatile heat treatable aluminium alloy.

CHEMICAL COMPOSITION

BS EN 573-3

Alloy 6061

| Element | % Present |
|----------------|-------------|
| Manganese (Mn) | 0.00 - 0.15 |
| Iron (Fe) | 0.00 - 0.70 |
| Magnesium (Mg) | 0.80 - 1.20 |
| Silicon (Si) | 0.40 - 0.80 |
| Copper (Cu) | 0.15 - 0.40 |
| Zinc (Zn) | 0.00 - 0.25 |
| Titanium (Ti) | 0.00 - 0.15 |
| Chromium (Cr) | 0.04 - 0.35 |
| Other (Each) | 0.00 - 0.05 |
| Others (Total) | 0.00 - 0.15 |
| Aluminium (Al) | Balance |

TEMPER TYPES

The most common temper for 6061 aluminium is:

• T6

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SUPPLIED FORMS

• Extrusions

CHARACTERISTICS

- Very good corrosion resistance
- Very good weldability although reduced strength in the weld zone
- Medium fatigue strength
- Good cold formability in the temper T4, but limited formability in T6 temper
- Not suitable for very complex cross sections

MECHANICAL PROPERTIES

BS EN 755-2

Extrusions Up to 200mm Dia. & A/F, 5mm WT for Tube and Prof

| Property | Value |
|------------------|-------------|
| Proof Stress | 240 Min MPa |
| Tensile Strength | 260 Min MPa |
| Hardness Brinell | 95 HB |