

# 7475 Aluminium Plate

Smiths Advanced Metals

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## Increased Fracture Toughness

7475 is a controlled toughness alloy

When compared to 7075 aluminium in the same tempers, 7475 aluminium plate typically offers a 40% increase in toughness.

Although overall properties are similar to 7075, 7475 aluminium plate offers corrosion resistance and fatigue characteristics which are as good if not better than similar high strength aluminium grades used in the aerospace sector. The product is suitable for applications requiring a combination of high mechanical strength, superior fracture toughness and where resistance to fatigue crack propagation is a consideration.

We stock [7475 aluminium plates](#) in a wide range of sizes and tempers including T7351 and T7651 tempers.



### Chemical Composition (weight %)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others (ea)	Others (total)	Al
min.			1.20		1.90	0.18	5.20				Rem
max.	0.10	0.12	1.90	0.06	2.60	0.25	6.20	0.06	0.05	0.15	

### Grades / Specifications

- ABS5052
- AMS4202
- BAMS 516-002
- DMS2184

### Processing Options

We process 7475 aluminium plates in-house to tight tolerances using vertical and CNC plate saws. We stock aluminium plates in incremental sizes, which are closer to your finished requirements.

### Use in Aerospace

[7475 aluminium alloy plate](#) is a popular alloy for producing fracture-critical components in aircraft, especially when this is a significant design consideration.

The alloy finds use in fuselages, wing skins, structural aerospace parts and high stressed components.

### Key Applications

- Aircraft structural parts
- Military components
- Highly stressed components
- Fracture critical components

### Benefits

- Superior fracture toughness
- Good resistance to fatigue cracking
- Superior strength

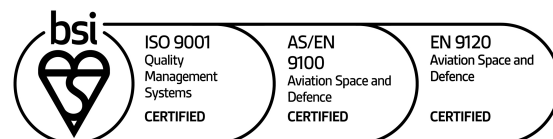


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