

7010 Aluminium Plate

Smiths Advanced Metals

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Good Stress Corrosion Resistance

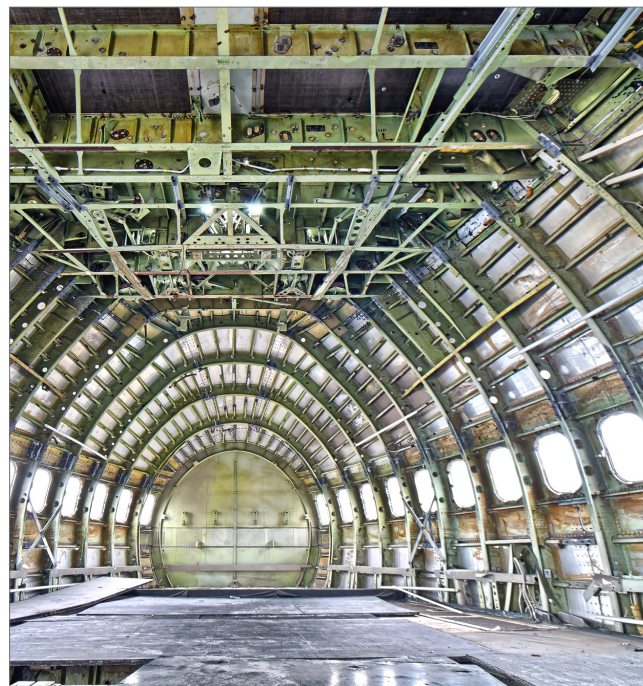
7010 is a high strength heat treatable alloy with good resistance to stress corrosion.

7010 aluminium plate offers higher strength when compared to 7075 but is unsuitable for high-temperature applications.

Our product is a wrought aluminium alloy product that offers high strength. While 7010 aluminium plate is sensitive to high-temperature ranges and thus, suffers from reduced strength as a consequence, overall strength may be increased at lower temperatures and is, therefore, considered a viable option for low-temperature service applications.

7010 provides a good range of attractive performance characteristics to be considered for various commercial engineering applications.

We stock [7010 aluminium plates](#) in a wide range of sizes and tempers, including T7351, T6 and T651.



Benefits

- Good corrosion resistance
- Good fatigue strength
- Good strength

Key Applications

- Aircraft structural parts
- Fuselage components
- Highly stressed components

Chemical Composition (weight %)

	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Others (ea)	Others (total)	Al
min.			1.50		2.10			5.70		0.10			Rem
max.	0.12	0.15	2.00	0.10	2.60	0.05	0.05	6.70	0.06	0.16	0.05	0.15	

Mechanical Properties (min. values, >127mm thick plate)

Temper	MPa R _m	MPa R _{p0.2}	Elongation A (%)	Hardness HBW Typical
T6	540	490	2	180
T651	540	490	2	180
T7351	450	360	5	

Properties as per BS EN 485-2

Processing

We process aluminium plates in-house to tight tolerances using vertical and CNC saws. Metallurgical support is also available via our [UKAS Accredited Testing Laboratory](#).

Grades / Specifications

- AMS4205
- BS EN 573, BS EN 485

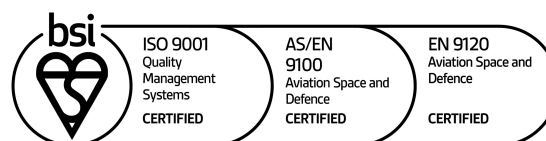
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