

## 7475 Aircraft Aluminum Plate

7475 aluminum alloy, part of the 7000 series aluminum alloys, is widely used in aerospace. Supplied in both bare and clad forms, it's typically annealed for optimal machinability. Offering high strength skin to 7075 aluminum but with superior fracture toughness, it's prized for its corrosion resistance and fatigue properties. Ideal for applications demanding exceptional mechanical strength, fracture toughness, and resistance to fatigue crack propagation, such as aircraft fuselage skin.

### Specifications of 7475 T761 T7351 Aluminum Sheet Plate:

Product	7475 Aircraft Aluminum Sheet Plate	
Hot selling temper	T61, T761, T7651, T651, T7351	
7475 aluminum sheet	thickness:0.01" -0.24" (0.2mm-6mm)	Width:35.4" -104" (900mm-2650mm)
7475 aluminum plate	thickness:0.24" -9.84" (6mm-250mm)	Width:35.4" -104" (900mm-2650mm)
7475 cast aluminum plate	Thickness:0.24"-15.75"(6mm-400mm)	Width:52" -73.2" (1320mm-1860mm)
7475 aluminum armor plate	Thickness:0.32" -9.84" (8mm-250mm)	Width:35.4" -104" (900mm-2650mm)
Surface treatment	Mill finish, Bright, polished, hair line, brush, sand blast, checkered, embossed, etching, etc.	
Surface requirements	The surface is smooth, free of defects such as scratches and oxide skin to ensure that the aluminum plate will not be corroded or damaged during use	
Tolerance of flatness	On the longest side of the plate, the flatness tolerance is 3mm/m; On the shortest side of the plate, the flatness tolerance is 2mm/m.	

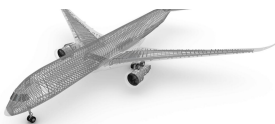
### Types of 7475 Aircraft Aluminum Sheet Plate:

7475-T61 Sheet AMS 4084
7475-T61 Sheet Alclad AMS 4207
7475-T651 Plate AMS 4090
7475-T761 Alclad Sheet AMS 4100 AMS4100 DMS2234 LN9073
7475-T761 Sheet AMS 4085 AMS4085
7475-T7651 Plate AMS 4089
7475-T7351 Plate AMS 4202
7475 O Clad DMS2234

### Chemical Composition of 7475 Aluminum Plate:

	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
	0.10	0.12	1.20-1.90	0.06	1.9-2.60	0.18-0.25	-	5.2-6.20	0.06	Remainder

### Mechanical property of 7475 Aluminum Plate:



Type	Temper	Thickness mm	Direction	Rm	Rp0.01	Rp0.2	R0.7	R0.85	A/%
				MPa					
7475 aluminum sheet	O	2.0	L	203		102			18
			LT	204		87			17
	T6		L	548	337	487	492	478	14
			LT	546	345	476	484	465	15.3
7475 aluminum sheet	T76	2.0	L	791	293	428	430	419	11.4
			LT	485	319	418	421	410	10.6
7475 aluminum plate	T651	38	L	560	423	499	503	497	13.4
			LT	570	386	492	500	478	14.2
	T7651		L	522	370	453	455	448	14.1
			LT	526	363	452	457	442	12.9
	T7351		L	517	349	443	448	432	14.0
			LT	510	353	439	442	435	14.6

## Features of Aircraft Grade 7475 Aluminum Plate:

- High strength:

7475 aluminum plate is a high-strength aluminum alloy, and its tensile strength can reach 500-600MPa, or even higher, which is much higher than ordinary aluminum alloys.

- Good corrosion resistance:

7475 aluminum alloy plate has good corrosion resistance by adding other alloy elements, and can resist corrosion in different environments, such as seawater, acid rain, etc.

- Good machinability:

7475 aluminum sheet can be easily processed, formed and welded to meet the needs of different application scenarios.

- Good wear resistance:

7475 aluminum plate has high surface hardness and excellent wear resistance, and performs well in high stress and high friction environments.

- Good high-temperature performance:

7475 aluminum alloy sheet performs well in high-temperature environments, has high thermal stability, and is not easy to deform or lose strength.

## Application of 7475 Aluminum Plate in Aviation:

- ❖ Fuselage parts
- ❖ Skins
- ❖ Bulkheads
- ❖ Wing components
- ❖ Upper and lower skins
- ❖ Spars
- ❖ Center structures

