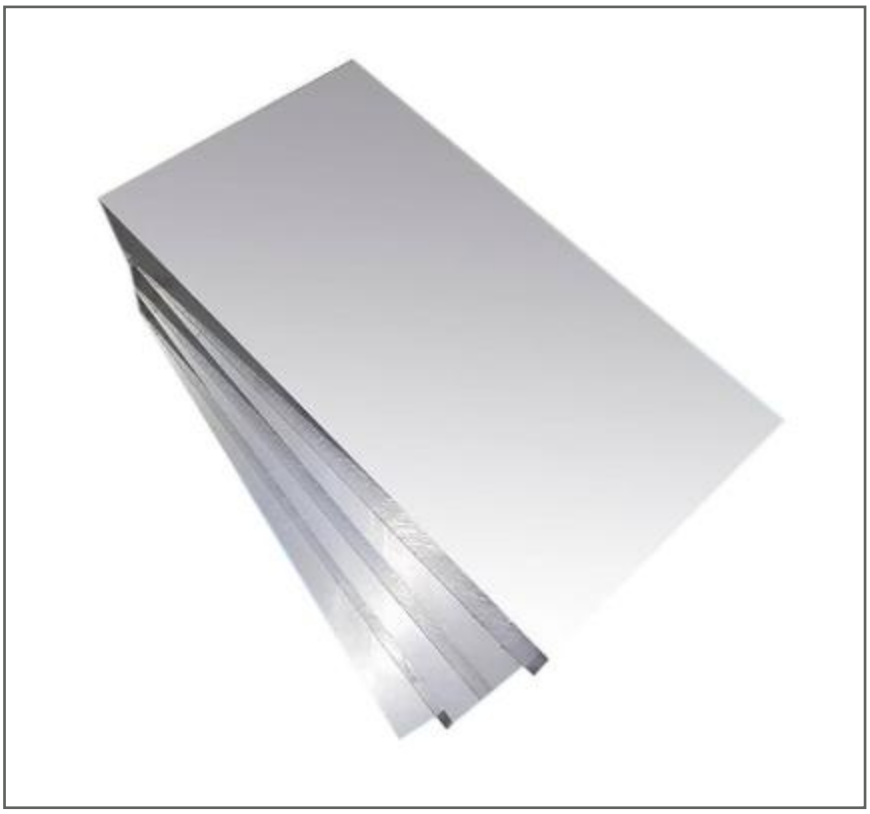
Metal Sheets

Features

- Very high strength aerospace aluminium
- Used where strength is critical and where good corrosion resistance is not important
- Highly durable under repetitive loading cycles, a critical feature for aircraft components that undergo constant stress fluctuations.
- With a Brinell hardness typically around 150 HB, it provides excellent resistance to surface wear and indentation.
- Very good low temperature properties
- Commonly used for aircraft fittings, gears and shafts, fuse parts, meter shafts and gears, missile parts, regulating valve parts, worm gears, keys, aircraft, aerospace and defense applications; bike frame and all-terrain vehicle (ATV) sprockets.

RS PRO 7075 Aluminium Sheet, L:300MM X W:200MM X T:50.8MM

RS Stock No: 858796



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

RS PRO 7075 Aluminium Sheet

The RS PRO 7075 Aluminium Sheet 7075 is a very high strength aerospace aluminium and is commonly used in applications where the strength of the material is critical and where the need for good corrosion resistance is not important. Offering superior stress corrosion resistance, 7075 provides very high yield and tensile strengths which is dictated by the particular chosen temper.

Key Features:

- *Reliable Machinability: Rated as "fair" to "good," it produces crisp, easily broken chips, though it requires sharp carbide tooling and rigid setups to manage its hardness.*
- *Low-Temperature Performance: Maintains its strength and toughness even at cryogenic temperatures (below -50°C), unlike many steels that become brittle in the cold.*
- *Dimensional Stability: Exhibits minimal warping after heat treatment, which is essential for precision molds and high-tolerance mechanical parts.*
- *Responds well to hardcoat (Type III) anodizing, which can be used to significantly improve its surface protection and wear resistance.*

Applications:

- *Airframes and Structures: Used for wing spars, ribs, and fuselage frames that must carry enormous loads.*
- *Skin Panels: T6 temper sheets are standard for aircraft skins.*
- *Landing Gear: Chosen for its ability to withstand sudden impacts during take-off and landing.*
- *Spacecraft: Components like heat shields and structural parts use 7075 because it manages heat well and resists wear.*

Metal Sheets

General Specifications

Material	Aluminium 7075
Form	Sheet
Length	300MM
Width	200MM
Thickness	50.8MM

Mechanical Specifications

Hardness	150HB
Density	2.80 - 2.81g/cm³
Tensile Strength	275 - 540MPa
Thermal Conductivity	134-160 W/mK
Yield Strength	455 - 165MPa

Metal Sheets

Similar Products

RS Code	Grade	Thickness
858794	7075	35MM
858795	7075	1 1/4IN
858797	7075	75MM
858798	7075	90MM
858799	7075	15MM