

Features

- Medium-to-high mechanical strength
- Excellent corrosion resistance
- Good weldability and brazing capability
- Suitable for structural and fabrication applications
- 6061 aluminium can be heat treated to improve mechanical properties and hardness. Tempers such as T6 and T651 provide enhanced strength and improved performance for demanding engineering applications.
- Good fatigue resistance, the alloy performs reliably under repeated loading and cyclic stress conditions, making it suitable for transportation, structural, and mechanical applications where long-term durability is required.

RS PRO 6061 Aluminium Sheet, L: 300MM X W: 200MM X T: 19.05MM

RS Stock No: 0858817



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Product Description

RS PRO 6061 Aluminium Sheet

RS Pro 6061 Aluminium Sheet is a medium-to-high strength heat-treatable aluminium alloy primarily alloyed with magnesium and silicon. It combines excellent corrosion resistance, good weldability, and strong mechanical performance, making it suitable for structural and engineering applications.

6061 aluminium sheet is widely used in aerospace, transport, fabrication, marine, tooling, and industrial applications where strength-to-weight ratio and corrosion resistance are important. The material also offers good machinability and formability in softer tempers.

Key Features:

- Strong yet lightweight material
- Excellent corrosion resistance for outdoor and marine environments
- Easy to machine and fabricate
- Suitable for anodising and finishing
- High dimensional stability
- Excellent structural performance

Applications:

- Aircraft structures
- Marine and shipbuilding components
- Automotive and transport structures
- Rail coach fabrication
- Machine parts and tooling
- Structural frameworks
- Towers and pylons
- Precision engineering applications

General Specifications

Material	Aluminium 6061
Form	Sheet
Length	300MM
Width	200MM
Thickness	19.05MM

Mechanical Specifications

Hardness	~95 HB
Elongation	8–12%
Density	2.70 g/cm ³
Ultimate Tensile Strength	260–310 MPa
Thermal Conductivity	170–220 W/m·K
Melting Range	582–652°C
Young’s Modulus	69 GPa

Approvals

EN / ASTM Material Standard	EN AW-6061 / UNS A96061
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Similar Products

RS Code	Grade	Thickness
0858818	6061	2IN
0858819	6061	1 ¼ IN
0858820	6061	1 ¾ IN
0858822	6061	5IN
0858823	6061	4IN
0858824	6061	1IN
0858825	6061	1 ½ IN