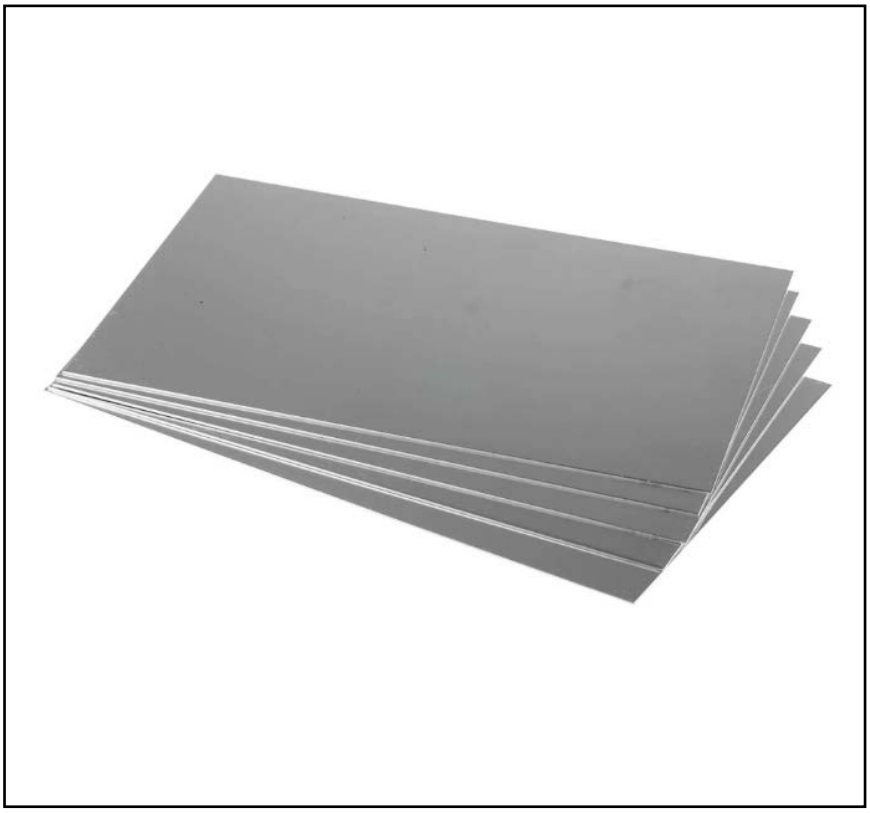
FEATURES

- Flexible alloy
- Easily formed
- Good weathering and chemical resistance
- Ideal for pressing and panelling applications

Natural Aluminium Sheet, 200mm Long, 2.71g/cm³, 300mm x 1.2mm

RS Stock No.: 434-043



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

These aluminium sheets from our own RS PRO brand are precision-finished to meet the international standards for tight thickness, tolerance, flatness and dimensional accuracy, sound metallurgical properties for further fabrication. Anodising characteristics and blemish-free surface make these sheets useful in both commercial and general applications. Aluminium sheets are also suitable both inside and outdoor use.
RS PRO Aluminium Sheet Metal options include the following sizes:
434-043 - SIC 1050A Aluminium sheet, 300mm x 200mm x1.2mm
434-059 - SIC 1050A Aluminium sheet, 500mm x 300mm x 2mm
178-239 - SIC 1050A Aluminium sheet, 500mm x 300mm x 3mm
183-944 - SIC 1050A Aluminium sheet, 500mm x 300mm x 6mm
188-321 - 6082 Aluminium sheet, 500mm x 300mm x 10mm
188-400 - 6082 Aluminium sheet, 500mm x 300mm x 12mm
188-292 - 6082 Aluminium sheet, 500mm x 300mm x 8mm
187-328 - 6082 Aluminium sheet, 500mm x 300mm x 3mm
188-264 - 6082 Aluminium sheet, 500mm x 300mm x 6mm

General Specifications

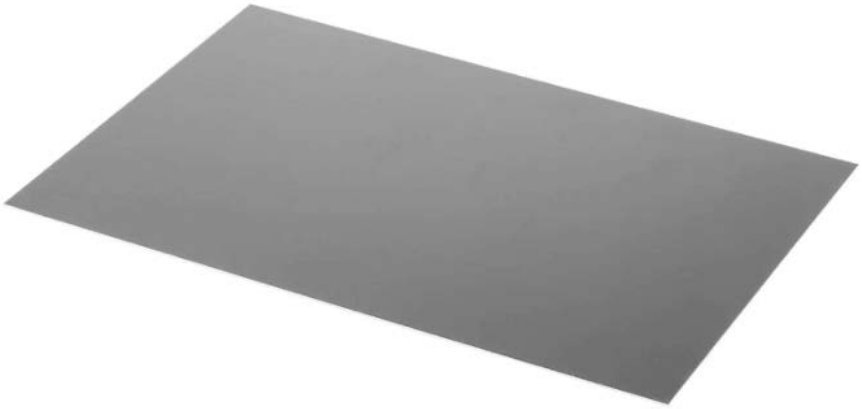
Construction	1050A
Material Grade	1050A
Colour	Natural
Suitability	Cable Sheathings, Chemical Process Plant Equipment, Food Industry Containers, Lamp Reflectors
Adhesive Backing	No
Form	Solid
Application	Defence; Industrial engineering; Transport – road, rail, air, marine; Building and construction; Fan blades; Electrical engineering

Mechanical Specifications

Length	300mm
Width	500mm
Thickness	1.2mm
Density	2.71g/cm³
Hardness	34 HB
Thermal Conductivity	222W/mK
Tensile Strength	105Mpa to 145Mpa

Approvals

Compliance/Certifications	BS1470 SIC (1987); BSEN 485-515-573 1050 AH14



	Si	Fe	Cu	Mn	Mg	Zn	Ti	Al
Min								99.50
Max	0.25	0.40	0.05	0.05	0.05	0.07	0.05	
Coil no.								
1022198	0.14	0.18	0.001	0.001	0.001	0.003	0.012	99.64

Mechanical properties

		Rp0.2	Rm	Elong A50				Thick-ness		Test Direction	Ag	
Cust.	Min	85	105	2				1.160				
	Max		145					1.220				
	Coil no.											
	1022198	110	116	5				1.180		Transverse	1	

Material Specification and Test Results
Standard EN 485/515/573

Commercial	1050A
EN	1050A

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.71 g/cm³
Melting Point	650 °C
Thermal Expansion	24 x10^{-6} /K
Modulus of Elasticity	71 GPa
Thermal Conductivity	222 W/m.K
Electrical Resistivity	0.0282 x10^{-6} Ω .m

CHEMICAL COMPOSITION

BS EN 573-3:2009
Alloy 1050A

Element	% Present
Iron (Fe)	0.0 - 0.40
Silicon (Si)	0.0 - 0.25
Zinc (Zn)	0.0 - 0.07
Magnesium (Mg)	0.0 - 0.05
Titanium (Ti)	0.0 - 0.05
Manganese (Mn)	0.0 - 0.05
Copper (Cu)	0.0 - 0.05
Other (Each)	0.0 - 0.03
Aluminium (Al)	Balance

MECHANICAL PROPERTIES

BS EN 485-2:2008
Sheet
0.2mm to 6.00mm

Property	Value
Proof Stress	85 Min MPa
Tensile Strength	105 - 145 MPa
Hardness Brinell	34 HB
Elongation A	12 Min %