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2014A Aluminium

HIGH STRENGTH ALUMINIUM ALLOY

Product Overview

Retaining its strength after heat treatment, **2014A** is classed as a high-strength aluminium alloy.

Supplied in the heated treated condition, which is solution heat treated and artificially aged, the material is a 4 to 5% copper alloy. 2014A finds extensive use in producing high-strength components, particularly in the Defence and Aerospace market. With superior machinability, we stock in the T651 condition with availability in extruded bar and plate. Note that the alloy offers poor resistance to atmospheric attack.

Material Specifications:

2014A , A92014, AlCu4SiMg, AMS 4121, BS H15, HE15 L168, W Nr. 3.1254 / 3.1255

Key Features

- Good strength after heat treatment
- Can be hard anodised and easily plated
- Superior machinability

Applications

- Aerospace and Defence components
- Structural applications and components
- Aerospace structures and vehicle frames

* Chemical Composition (weight, %)

	Si	Fe	Cu	Zn	Mn	Mg	Ti	Cr	Other	Al
Min.	0.50		3.90		0.40	0.20				Bal
Max.	0.90	0.50	5.00	0.25	1.20	0.80	0.15	0.10	0.15	Bal

* Properties as per BS EN 573-3

Physical Properties

Density	2.82 Kg/m³
Melting Point	535°C
Thermal Conductivity	138 W/m.K
Thermal Expansion Coefficient	23 x 10^{-6} /K
Modulus of Elasticity	71 GPa

* Mechanical Properties

Elongation A50mm	7% min
Tensile Strength	460 MPa (min)
Proof Stress	420 MPa (min)

* Properties as per BS EN 755-2, T6/T6510/T6511 (25-75mm diameter)

Availability

- Extruded Bar & plate

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