

**Data Sheet** 

# Aluminium 2017A / 3.1325 / Al-Cu4Mg

# **Alternative Designations**

Key Features

EN AW-2017A | Al-Cu4Mg (ISO) | AA2017A (ANSI/AA) | H14 (BS) | A-U4G (AFNOR) | L-3120 (UNE) | A92017 (UNS) | A2017 (JIS) | CM41(17S) (CSA) | GA631 (SIS)

Ductile • High strength • Excellent workability

### **Description**

Aluminium 2017A / Al-Cu4Mg is an age-hardenable wrought alloy that offers a combination of high strength and good ductility. It is typically used in the aerospace industry for structural components that require a high strength-to-weight ratio. It can be heat treated to achieve a wide range of properties, depending on the desired application. For example, it can be heat treated to produce a strong, yet ductile material that is well suited for use in structural applications.

## **Mechanical Properties**

Physical Properties

Cl	C	
Chemical	Com	position

135 – 240 MPa
250 – 370 MPa
8 – 12%
45 – 105
72.5 GPa

Density	2.8 g/cm <sup>3</sup>
Electrical conductivity	18 – 28 (MS/m)
Thermal conductivity	130 – 200 W/m · K
Specific heat capacity	860 J/kg · K

Al	Rest is Al	N	-
Ві	-	Nb	-
С	-	Ni	0.2%
Cd	-	0	-
Co	-	Р	1.5%
Cr	0.1%	Pb	0.8 – 1.5%
Cu	3.5 – 4.5%	S	-
Fe	0.7%	Si	≤ 0,80%
Н	-	Sn	0.2%
Mg	0.4 - 0.8%	Ti	0.2%
Mn	0.4 - 1%	V	-
Мо	-	Zn	0.8%

# Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit <u>Materialdatacenter.com</u> for further information on this material.