

Goodfellow Dural® Aluminum /Copper/Magnesium Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy

Material Notes:

High strength, low weight alloy; in the solution heat-treated and aged condition, mechanical properties are as good as, or better than, low-carbon steel. Limited weldability. Used in aircraft and aerospace applications. Poor corrosion resistance. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Dural-Aluminum-CopperMagnesium-Alloy.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	115 - 135	115 - 135	
Tensile Strength at Break	420 - 500 MPa	60900 - 72500 psi	
Elongation at Break	<= 22 %	<= 22 %	
Tensile Modulus	73.0 GPa	10600 ksi	
Izod Impact, Unnotched	0.0800 - 0.220 J/cm	0.150 - 0.412 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
CTE, linear	22.5 µm/m-°C	12.5 µin/in-°F	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	147 W/m-K	1020 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	95 %	95 %	
Copper, Cu	4.0 %	4.0 %	
Magnesium, Mg	1.0 %	1.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000500 ohm-cm	0.00000500 ohm-cm	Temperature Coefficient of 0.0022 to 0.0026/K

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