

Aleris Alustar H136 Aluminum Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy , 5000 Series Aluminum Alloy

Material Notes:

Close in composition to AA5059. Used in defense and mining shielding applications for protection against ballistics and blasts. H136 has a higher elongation than H131 and so provides better protection against mining blasts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aleris-Alustar-H136-Aluminum-Alloy.php

Physical Properties	Metric	English	Comments
Density	2.66 g/cc	0.0961 lb/in ³	Aluminum 5083

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	324 MPa	47000 psi	
	@Thickness 50.83 - 76.2 mm	@Thickness 2.001 - 3.00 in	
	359 MPa	52100 psi	
	@Thickness 12.7 - 50.8 mm	@Thickness 0.500 - 2.00 in	
	365 MPa	52900 psi	
	@Thickness 6.35 - 12.7 mm	@Thickness 0.250 - 0.499 in	
Tensile Strength, Yield	269 MPa	39000 psi	
	@Strain 0.200 %, Thickness 6.35 - 12.7 mm	@Strain 0.200 %, Thickness 0.250 - 0.499 in	
	269 MPa	39000 psi	
	@Strain 0.200 %, Thickness 12.7 - 50.8 mm	@Strain 0.200 %, Thickness 0.500 - 2.00 in	
	269 MPa	39000 psi	
	@Strain 0.200 %, Thickness 50.83 - 76.2 mm	@Strain 0.200 %, Thickness 2.001 - 3.00 in	
Elongation at Break	>= 10 %	>= 10 %	
	@Thickness 6.35 - 12.7 mm	@Thickness 0.250 - 0.499 in	
	>= 10 %	>= 10 %	
	@Thickness 12.7 - 50.8 mm	@Thickness 0.500 - 2.00 in	

Mechanical Properties	Metric	English	Comments
	@Thickness 50.83 - 76.2 mm	@Thickness 2.001 - 3.00 in	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	93 %	93 %	
Chromium, Cr	<= 0.30 %	<= 0.30 %	
Copper, Cu	<= 0.40 %	<= 0.40 %	
Iron, Fe	<= 0.50 %	<= 0.50 %	
Magnesium, Mg	5.0 - 6.0 %	5.0 - 6.0 %	
Manganese, Mn	0.60 - 1.2 %	0.60 - 1.2 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	
Titanium, Ti	<= 0.20 %	<= 0.20 %	
Zinc, Zn	0.40 - 1.5 %	0.40 - 1.5 %	
Zirconium, Zr	0.050 - 0.25 %	0.050 - 0.25 %	

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