

Aleris Hokotol Aluminum Alloy, 200 mm Thickness

Category : Metal , Nonferrous Metal , Aluminum Alloy , 7000 Series Aluminum Alloy

Material Notes:

Sample treatment not specified for property data. Applications include molds for blow forming and injection molding for plastics; bolsters and force plates; high strength/low weight machine parts; and mechanical components with elevated mechanical properties. Poor weldability and corrosion resistance. Very good machinability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aleris-Hokotol-Aluminum-Alloy-200-mm-Thickness.php

Physical Properties	Metric	English	Comments
Density	2.83 g/cc	0.102 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	180	180	
Hardness, Knoop	232	232	Estimated from Brinell
Hardness, Rockwell A	59	59	Estimated from Brinell
Hardness, Rockwell B	96	96	Estimated from Brinell
Hardness, Vickers	217	217	Estimated from Brinell
Tensile Strength, Ultimate	>= 500 MPa	>= 72500 psi	Minimum
	545 MPa	79000 psi	Typical
Tensile Strength, Yield	>= 430 MPa	>= 62400 psi	Minimum
	@Strain 0.200 %	@Strain 0.200 %	
	485 MPa	70300 psi	Typical
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	>= 1.0 %	>= 1.0 %	Minimum
	4.0 %	4.0 %	Typical
Modulus of Elasticity	70.3 GPa	10200 ksi	
Machinability	90 %	90 %	
Shear Strength	315 MPa	45700 psi	Calculated

Thermal Properties	Metric	English	Comments
	23.5 μm/m-°C	13.1 μin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 20.0 - 100 °C	English @ Temperature 68.0 - 212 °F	Comments
Thermal Conductivity	154 W/m-K	1070 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	86 - 90.9 %	86 - 90.9 %	as balance
Chromium, Cr	<= 0.10 %	<= 0.10 %	
Copper, Cu	1.5 - 2.6 %	1.5 - 2.6 %	
Iron, Fe	<= 0.30 %	<= 0.30 %	
Magnesium, Mg	1.8 - 2.6 %	1.8 - 2.6 %	
Manganese, Mn	<= 0.15 %	<= 0.15 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silicon, Si	<= 0.20 %	<= 0.20 %	
Titanium, Ti	<= 0.060 %	<= 0.060 %	
Zinc, Zn	5.7 - 7.6 %	5.7 - 7.6 %	
Zirconium, Zr	0.080 - 0.25 %	0.080 - 0.25 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000430 ohm-cm	0.00000430 ohm-cm	

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