

AIM 70 Fusible Alloy

Category: Metal, Nonferrous Metal, Bismuth Alloy, Solder/Braze Alloy

Material Notes:

Uses: punch and die in short run sheet metal forming; external and internal support for bending tubing extrusions; holding jet engine blades for machining and broaching; annealing and nitriding seals; nests for feeding stations. These silvery white alloys expand only ~3.3% of their volume when changing from liquid to solid form, which makes these alloys ideal for many industrial applications. AIM fusible alloys are rarely consumed in an operation and therefore can be remelted and used multiple times. These alloys are normally used in gravity casting but also can be used in other casting methods. Information provided by AIM Specialty Materials.

Order this product through the following link: http://www.lookpolymers.com/polymer_AIM-70-Fusible-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.38 g/cc	0.339 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	9.2	9.2	
Tensile Strength, Ultimate	41.3 MPa	5990 psi	
Elongation at Break	200 %	200 %	

Thermal Properties	Metric	English	Comments
Heat of Fusion	32.6 J/g	14.0 BTU/lb	
CTE, linear	22.0 μm/m-°C	12.2 μin/in-°F	
ore, illedi	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.167 J/g-°C	0.0400 BTU/lb-°F	Liquid
	0.167 J/g-°C	0.0400 BTU/lb-°F	Solid
Melting Point	158 °C	316 °F	

Component Elements Properties	Metric	English	Comments
Bismuth, Bi	50 %	50 %	
Cadmium, Cd	10 %	10 %	
Lead, Pb	26.7 %	26.7 %	
Tin, Sn	13.3 %	13.3 %	



Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000430 ohm-cm	0.0000430 ohm-cm	

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