

Osprey Metals CE9 Al-Si Controlled Expansion Alloy

Category : Metal , Nonferrous Metal

Material Notes:

Si-40%Al controlled expansion alloy manufactured and patented by Osprey Metals Ltd. Information provided to MatWeb by Osprey Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Osprey-Metals-CE9-Al-Si-Controlled-Expansion-Alloy.php

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	118 GPa	17100 ksi	
Flexural Strength	140 MPa	20300 psi	Three Point Bend

Thermal Properties	Metric	English	Comments
CTE, linear	8.30 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	4.61 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 25.0 - 100 $^\circ\text{C}$	@Temperature 77.0 - 212 $^\circ\text{F}$	
	9.90 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	5.50 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 25.0 - 200 $^\circ\text{C}$	@Temperature 77.0 - 392 $^\circ\text{F}$	
	10.1 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	5.61 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 25.0 - 500 $^\circ\text{C}$	@Temperature 77.0 - 932 $^\circ\text{F}$	
	10.5 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	5.83 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 25.0 - 300 $^\circ\text{C}$	@Temperature 77.0 - 572 $^\circ\text{F}$	
Specific Heat Capacity	0.780 J/g- $^\circ\text{C}$	0.186 BTU/lb- $^\circ\text{F}$	
Thermal Conductivity	108 W/m-K	750 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 200 $^\circ\text{C}$	@Temperature 392 $^\circ\text{F}$	
	129.4 W/m-K	898.0 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 25.0 $^\circ\text{C}$	@Temperature 77.0 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	40 %	40 %	
Silicon, Si	60 %	60 %	

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