

Osprey Metals CE13 Al-Si Controlled Expansion Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy

Material Notes:

Al-42%Si 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-CE13-Al-Si-Controlled-Expansion-Alloy.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	176 MPa	25500 psi	
Tensile Strength, Yield	155 MPa	22500 psi	
Modulus of Elasticity	102 GPa	14800 ksi	
Flexural Strength	213 MPa	30900 psi	Three Point Bend

Thermal Properties	Metric	English	Comments
CTE, linear	12.4 $\mu\text{m}/\text{m}\cdot\text{C}$	6.89 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 25.0 - 100 $^{\circ}\text{C}$	@Temperature 77.0 - 212 $^{\circ}\text{F}$	
	13.6 $\mu\text{m}/\text{m}\cdot\text{C}$	7.56 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 25.0 - 200 $^{\circ}\text{C}$	@Temperature 77.0 - 392 $^{\circ}\text{F}$	
	14.4 $\mu\text{m}/\text{m}\cdot\text{C}$	8.00 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 25.0 - 300 $^{\circ}\text{C}$	@Temperature 77.0 - 572 $^{\circ}\text{F}$	
	15.2 $\mu\text{m}/\text{m}\cdot\text{C}$	8.44 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 25.0 - 500 $^{\circ}\text{C}$	@Temperature 77.0 - 932 $^{\circ}\text{F}$	
Specific Heat Capacity	0.820 J/g- $^{\circ}\text{C}$	0.196 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	160 W/m-K	1110 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	58 %	58 %	
Silicon, Si	42 %	42 %	

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