

## Osprey Metals CE17M Al-Si Controlled Expansion Alloy

Category : Metal , Nonferrous Metal , Aluminum Alloy

### Material Notes:

Al-27%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-CE17M-Al-Si-Controlled-Expansion-Alloy.php](http://www.lookpolymers.com/polymer_Osprey-Metals-CE17M-Al-Si-Controlled-Expansion-Alloy.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	220 MPa	31900 psi	
Tensile Strength, Yield	152 MPa	22000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	15.3 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.50 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 100 $\text{°C}$	@Temperature 77.0 - 212 $\text{°F}$	
	16.8 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 500 $\text{°C}$	@Temperature 77.0 - 932 $\text{°F}$	
	17.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.44 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 200 $\text{°C}$	@Temperature 77.0 - 392 $\text{°F}$	
	17.7 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 300 $\text{°C}$	@Temperature 77.0 - 572 $\text{°F}$	
Specific Heat Capacity	0.7673 J/g- $\text{°C}$	0.1834 BTU/lb- $\text{°F}$	
Thermal Conductivity	146.5 W/m-K	1017 BTU-in/hr-ft <sup>2</sup> - $\text{°F}$	
	@Temperature 200 $\text{°C}$	@Temperature 392 $\text{°F}$	
	146.8 W/m-K	1019 BTU-in/hr-ft <sup>2</sup> - $\text{°F}$	
	@Temperature 25.0 $\text{°C}$	@Temperature 77.0 $\text{°F}$	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	73 %	73 %	
Silicon, Si	27 %	27 %	

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