



**CLADIATORS™**  
ADVANCED ENGINEERING

Cladiators Attachment Systems are made from 6063-T5 Aluminum Alloy.

## ALUMINUM 6063-T5 Data

Properties	Metric	English
Density	2.70 g/cc	0.0975 lb/in <sup>3</sup>
Hardness, Brinell	60	60
Ultimate Tensile Strength	186 MPa	27.0 ksi
Tensile Yield Strength	145 MPa	21.0 ksi
Elongation at Break (Typical; 1/16 in. (1.6 mm) Thickness)	12.00%	12.00%
Modulus of Elasticity	68.9 GPa	10000 ksi
Poissons Ratio	0.33	0.33
Fatigue Strength	68.9 MPa @ # of Cycles 5.00e+8	10000 PSI @ # of Cycles 5.00e+8
Electrical Resistivity	0.00000316 ohm-cm @20.0°C	0.00000316 ohm-cm @ 68.0°F
Average CTE	23.4 µm/m-°C @ 20.0 - 100°C	13.0 µin/in-°F @ 68.0 - 212°F
Specific Heat Capacity	0.900 J/g-°C	0.215 BTU/lb-°F
Thermal Conductivity	209 W/m-K	1450 BTU-in/hr-ft <sup>2</sup> -°F
Melting Point	616 - 654 °C	1140 - 1210 °F