



# TECHNICAL DATA SHEET

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**PRODUCT:** Graphene based Heat Spreader - AT1500-90

Graphene CAS# 7782-42-5

**DESCRIPTION:**

Graphene based Heat Spreader thickness of 90  $\mu\text{m}$

**PRODUCT STRUCTURE:**



**TECHNICAL DATA:**

Thermal Conductivity: 1,200 - 1,500 W/mK (In-plane); 3 - 5 W/mK (Through-plane)

Thermal Diffusivity: > 700  $\text{mm}^2/\text{s}$

Specific Heat Capacity: 0.85 J/gK

Thickness: 90  $\pm$  5  $\mu\text{m}$

Width x Length: 23 x 23 cm, 12 x 26 cm, customizable

Density: 2.0  $\pm$  0.2  $\text{g}/\text{cm}^3$

Electrical Conductivity: > 5,000 S/cm (in-plane)

Surface Resistance: < 0.1  $\Omega/\square$

Tensile Strength: > 30 MPa

Operating Temperature: -40 to 400 in air  $^{\circ}\text{C}$

RoHS Compliant: Yes

Halogen Free: Yes

Storage: Store at room temperature (< 50 $^{\circ}\text{C}$ ) with low humidity

**APPLICATIONS:**

Used in computer heat conduction and cooling, electronic devices, large screen display, LED lighting, and an needs for thermal management products.

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Please contact Global Graphene Group for the most current technical information.

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