

## CICARBO GRAPHENE™

# CELTIG



Taking on the world of graphene!

# **TECHNICAL DATA SHEET (Product EG016)**

CICARBO GRAPHENE $^{TM}$  (ELECTRONICS GRADE)

## PHYSICAL PROPERTIES

Form: Light powder Color: Dark gray to black

**Odor:** Odorless

Carbon content: > 99.5 wt% Moisture content: < 0.35 wt% Oxygen content: < 1.0 wt% Ash content:  $\approx 0.1$  wt%

**Dry powder resistivity:** < 50 ohm cm

**Sheet resistivity:** < 10 ohm/square (4-pt. probe; 50 µm film)

Particle size range: 50 nm to 5 μm

**Mono-, bi-, and tri-layer content:** > 85% (particle count) **Average particle thickness:** < 1.7 nm (DLS/PSA estimate)

**Particle layer count:** < 10

**Dry powder density:**  $\approx 160 \text{ kg/m}^3$ 

**True density:** 2.2 g/cm<sup>3</sup>

**Specific surface area:**  $< 250 \text{ m}^2/\text{g}$  (DLS/PSA estimate)

Electrically conductive inks Optical displays and sensors Nanocapacitor technology

Electrode materials for batteries

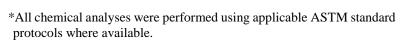
Electrically conductive films and coatings

Optical electronics
Quantum dots

Physico/biochemical sensors

Photovoltaic cells

Fuel cell energy storage
High frequency transistors
Gas separation membranes





### FOR ADDITIONAL INFORMATION AND PRICING, PLEASE CONTACT:

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POTENTIAL APPLICATIONS