



CICARBO GRAPHENE™

CELTIG



Taking on the world of graphene!

TECHNICAL DATA SHEET (Product EG016) CICARBO GRAPHENE™ (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: ≈ 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: ≈ 160 kg/m³
True density: 2.2 g/cm³
Specific surface area: < 250 m²/g (DLS/PSA estimate)

POTENTIAL APPLICATIONS

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

*All chemical analyses were performed using applicable ASTM standard protocols where available.



FOR ADDITIONAL INFORMATION AND PRICING, PLEASE CONTACT:

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