



CICARBO GRAPHENE™

CELTIG



Taking on the world of graphene!

TECHNICAL DATA SHEET (Product MG016) CICARBO GRAPHENE™ (MATERIALS GRADE)

PHYSICAL PROPERTIES

Form: Light powder
Color: Dark gray to black
Odor: Odorless
Carbon content: > 99.0 wt%
Moisture content: < 0.50 wt%
Oxygen content: < 1.0 wt%
Ash content: ≈ 0.5 wt%
Dry powder resistivity: < 100 ohm cm
Sheet resistivity: < 20 ohm/square (4-pt. probe; 50 μm film)
Particle size range: 100 nm to 5 μm
Mono-, bi-, and tri-layer content: > 70% (particle count)
Average particle thickness: < 2.5 nm (DLS/PSA estimate)
Particle layer count: < 15
Dry powder density: ≈ 175 kg/m³
True density: 2.2 g/cm³
Specific surface area: < 180 m²/g (DLS/PSA estimate)

POTENTIAL APPLICATIONS

Ultrafiltration membranes
Barrier coatings and films
3D printing technology
Electrode materials for batteries
Electrically conductive films and coatings
High temperature lubricants
Thermal pastes
Electrically conducting polymers
Anticorrosive coatings
Fuel cell energy storage
Heat exchange transfer media
Gas separation membranes

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



FOR ADDITIONAL INFORMATION AND PRICING, PLEASE CONTACT:

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