



### DATASHEET

SKU: XGA-EOGO  
Last update: 05.2018

Graphene flakes with a low oxidation level, having oxygen functional groups placed on the edges of the flakes. The material does not require additional cleaning.

<b>OXYGEN CONTENT</b>	5-10% (dehydrated sample)
<b>CHEMICAL COMPOSITION (non-oxygen)</b>	Carbon: >99.8% Silicon: <40 ppm Phosphorus: <200 ppm Sulfur <60 ppm Potassium: < 5ppm Calcium: <30 ppm Chromium: <125 ppm Manganese: <10 ppm Iron: <900 ppm Nickel: <20 ppm Copper: <5 ppm Zinc: <2 ppm
<b>FLAKE SIZE</b>	Under standard conditions, flake size analysis (DLS - dynamic light scattering) represents a Gaussian distribution with an average flake size of 500 nm.  90% of the flakes have a diameter <800nm.
<b>SPECIFIC SURFACE AREA</b>	~230 m <sup>2</sup> /g
<b>NUMBER OF LAYERS (n)</b>	<10 (90% of a material)
<b>COLOR</b>	Black
<b>ODOR</b>	Odorless

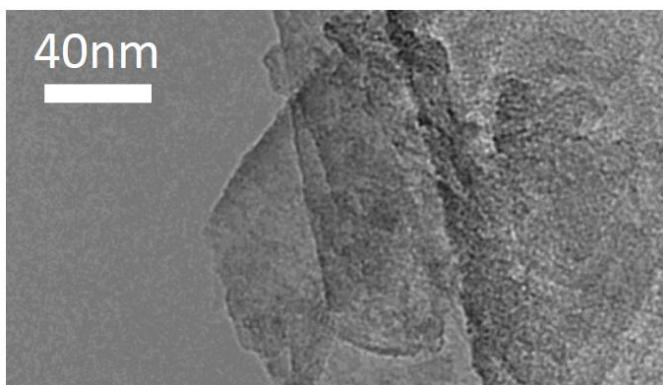
## PREPARATION OF DISPERSIONS

The dispersion stability depends on the specifics of the material in which the dispersion is made. Optimal materials for dispersion of EOGO should be characterized by polarity or hydrophilicity. Sonication is recommended for improving the degree of dispersion.

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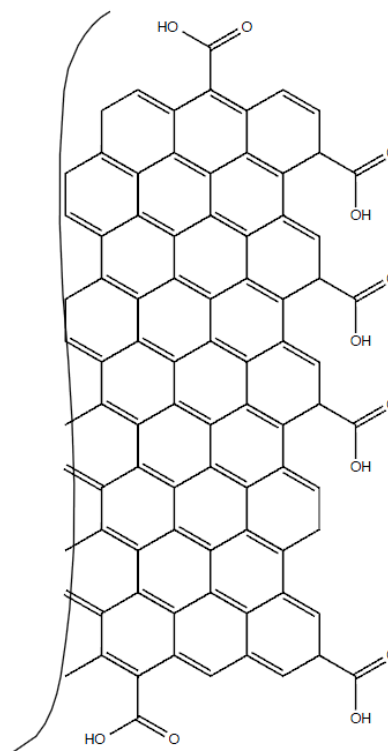
### SEM

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### STRUCTURE

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Schematic representation of the EOGO graphene structure.

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## ADDITIONAL INFORMATION

Standard graphene flakes (oxides or reduced oxides) are in a powder form. AGP offers a wide range of flake graphene with different parameters and in various forms (powder, water dispersion, pastes, etc.). Our innovative approach involves a synthesis of customized graphene materials. In order to determine the possibility of preparing an individual product or in case of any questions, please contact our Sales Department directly at [sales@agp-corp.com](mailto:sales@agp-corp.com).

