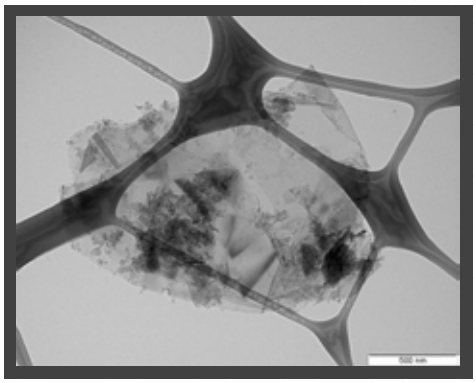
XG sciences
THE MATERIAL DIFFERENCE

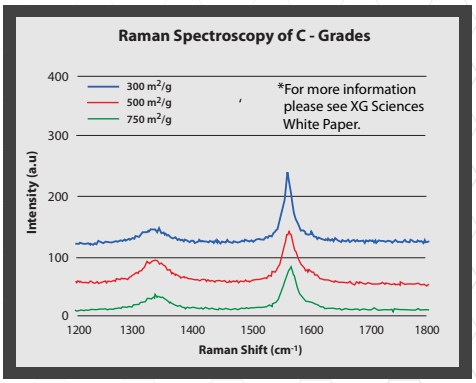
xGnP® C

TECHNICAL DATA SHEET

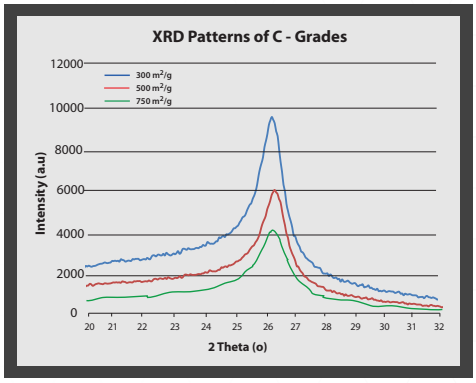
xGnP® Grade C Product Characteristics

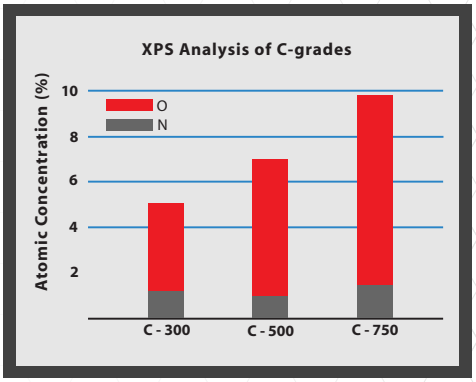
xGnP® Graphene Nano-platelets are unique nanoparticles consisting of short stacks of graphene sheets having a platelet shape. **Grade C** particles are available in different grades that are designated by their approximate surface area.





Grade C particles typically consist of aggregates of sub-micron platelets that have a particle diameter of less than two microns and a typical particle thickness of a few nanometers, depending on the surface area. **Grade C** particles can be ordered with average surface areas of **300, 500 and 750 m²/g**.





Characteristics of Bulk Powder

Appearance	Black granules/powder
Bulk Density	0.2-0.4 g/cc
Relative Gravity	2-2.25 g/cc

**Note: nanoplatelets have naturally occurring functional groups like ethers, carboxyls, or hydroxyls that can react with atmospheric humidity to form acids or other compounds. These functional groups are present on the edges of the particles and their wt% varies with particle size.*

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