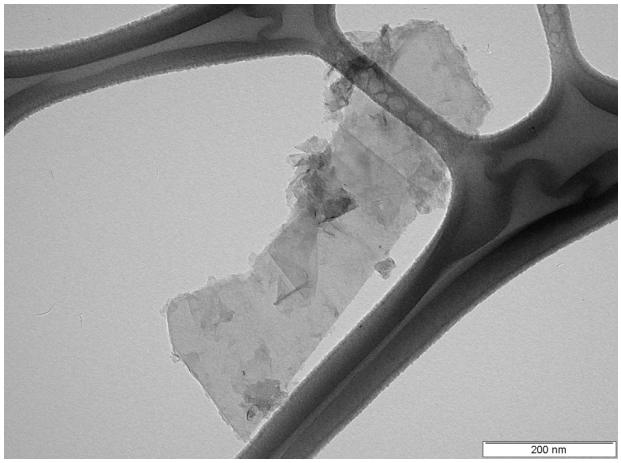
Technical Data Sheet

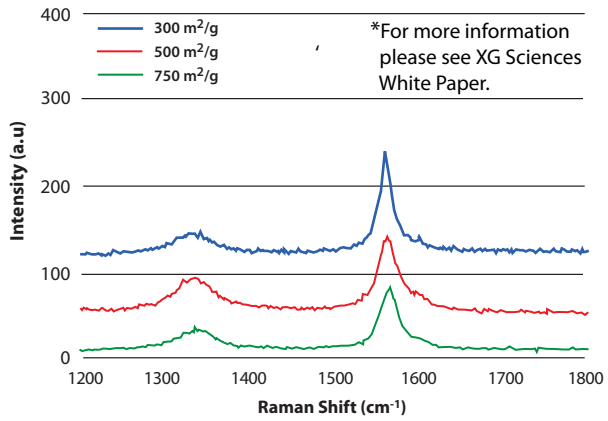
xGnP® Graphene Nanoplatelets - Grade C

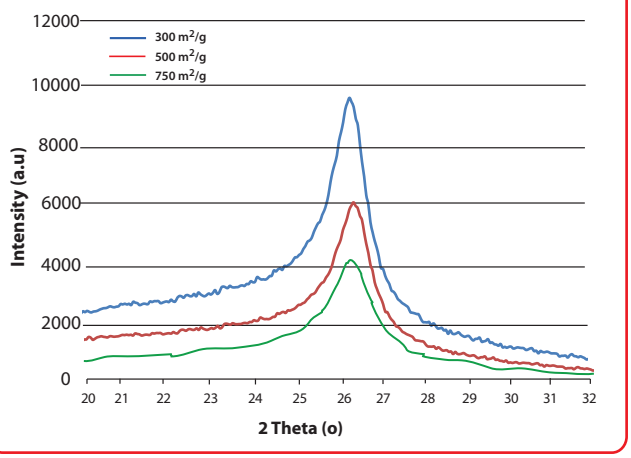
xGnP® Graphene Nanoplatelets are unique nanoparticles consisting of short stacks of graphene sheets having a platelet shape. **Grade C** particles are available in different grades that are designated by their approximate surface area.

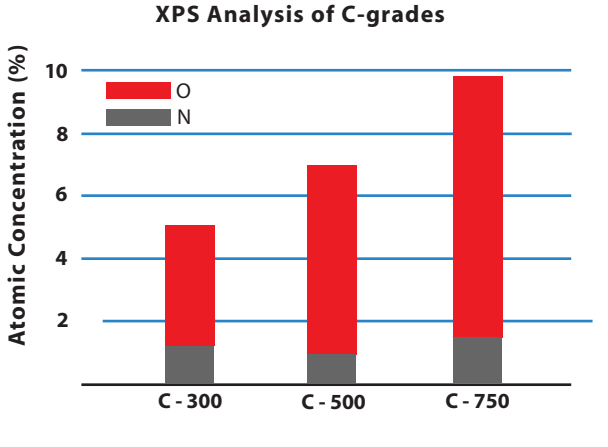
Grade C particles typically consist of aggregates of sub-micron platelets that have a particle diameter of less than 2 microns and a typical particle thickness of a few nanometers, depending on the surface area. Grade C particles can be ordered with average surface areas of ***300, 500 and 750 m^2/g***.



TEM Image of nearly transparent platelet - 750 m^2/g







Characteristics of Bulk Powder

Property	*Typical Value*
Appearance	Black granules/powder
Bulk Density	0.2 to 0.4 g/cc
Relative Gravity	2.0-2.25 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.

XG sciences
THE MATERIAL DIFFERENCE