rGO – REDUCED GRAPHENE OXIDE

DATASHEET

Advanced Graphene Products

SKU: XBB-RGO
Last update: 05.2018

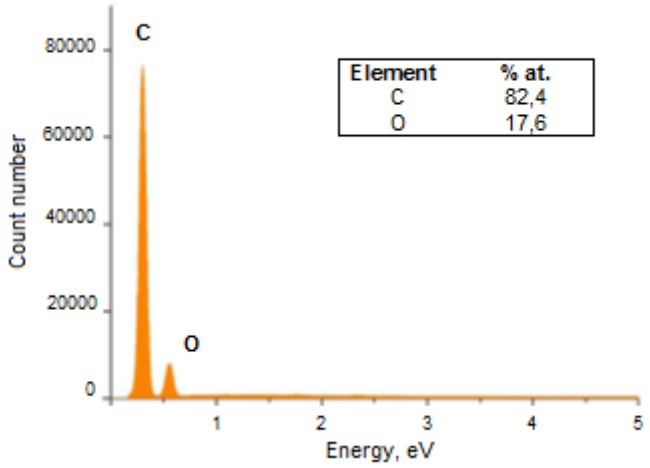
Reduced graphene oxide is obtained in a two-stage process, which involves the oxidation of graphite to graphene oxide (GO) and subsequent reduction to graphene flakes (rGO).

CHEMICAL COMPOSITION	**Carbon >80%** **Oxygen: <18%** **Hydrogen: <1,8%** **Sulfur: <0,2%** Graphene contains carbonyl groups. Hydroxy and epoxy groups were eliminated (FTIR analysis).
AVAILABLE FLAKE SIZE	**>100 um** (custom flake sizes available on request)
SPECIFIC SURFACE AREA	**500-700 m^2/g** (custom SSA available on request)
AVERAGE BULK DENSITY	**12 g/dm^3**
NUMBER OF LAYERS	**<7**
DISTANCE BETWEEN LAYERS	**~0,350-0,390 nm**

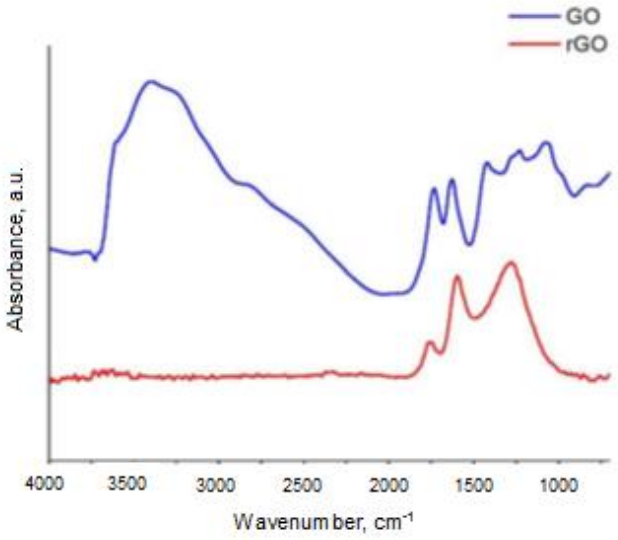
ADDITIONAL INFORMATION

Standard reduced graphene oxide is a powder material. AGP offers a wide range of flake graphene with different parameters and in various forms (powder, water dispersion, pastes, etc.). It is possible to prepare the material directly for individual needs. In order to determine the possibility of preparing a custom product or in case of any questions, please contact our Sales Department directly at: sales@agp-corp.com.

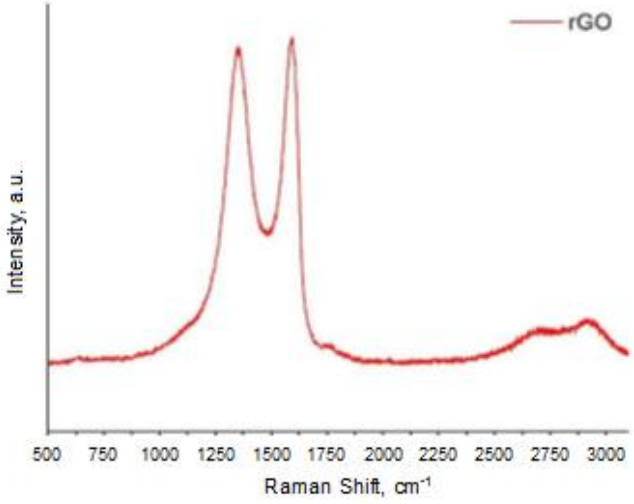
EDS



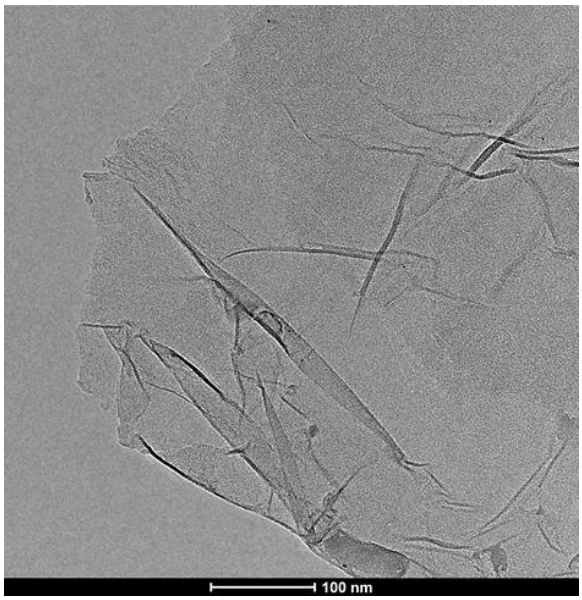
FTIR



Raman Spectroscopy



TEM



SEM