Technical specification of highly conductive graphene supported Pd nanocrystals

Description: CGPD composite is highly crystalline graphene sheets hybridized with platinum nanocrystals. The graphene sheets act as substrate and thickness is about 1~10 nm. The attached particle size of Pd is between 5-50 nm, and the loading density is in the range of 10%-50%. X-ray diffraction pattern confirms that the graphene sheets are well crystallized and the attached particles are Pd.

Catalog number: CGPD-050, CGPD-200

Product name: Highly conductive graphene supported Pd nanocrystals in acetone

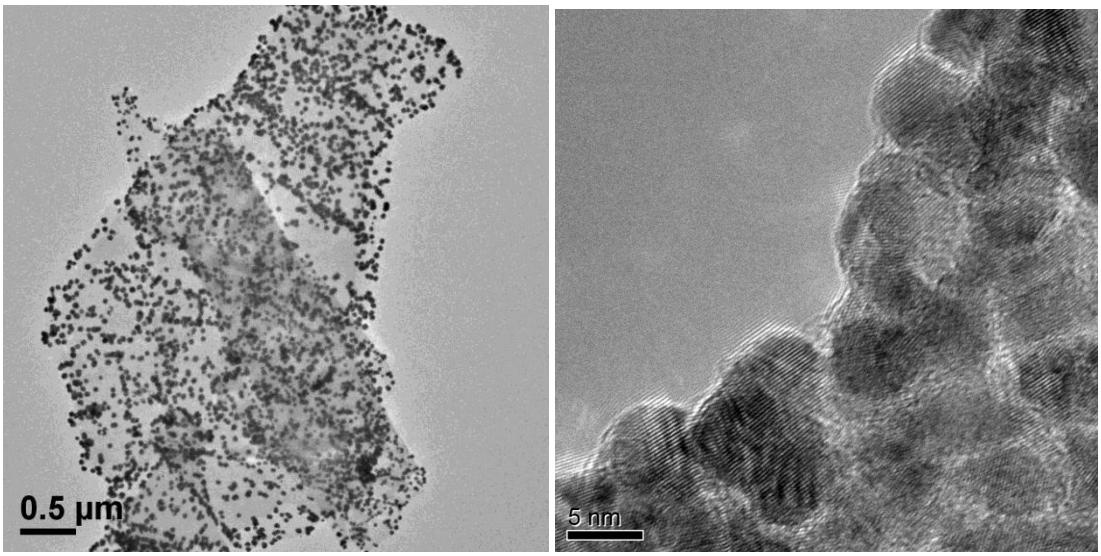
Solvent: Acetone

Storage: 4-25°C; Do not freeze.

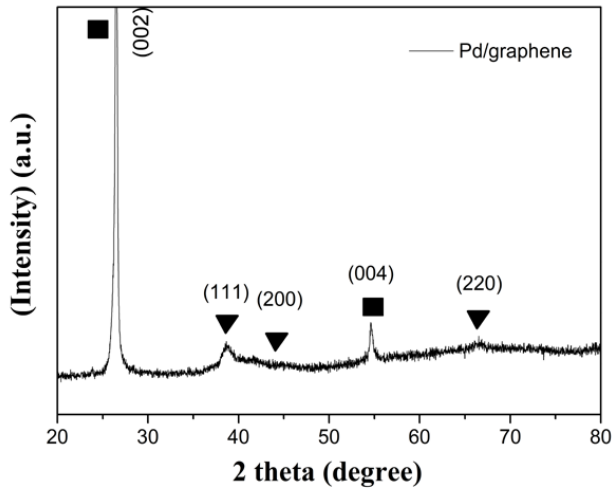
Shelf life: 12 months

Catalog No.	CGPD-050	CGPD-200
Particle Size (nm)	5-50	5-50
Solvent	Acetone	Acetone
Graphene Thickness (nm)	1-10	1-10
Loading Density	10%-50%	10%-50%
Storage Temperature	4-25°C	4-25°C
Graphene Resistance (Ω/sq)	$< 10^3$	$< 10^3$
Concentration (mg/mL)	10	10
Volume (mL)	5	20
Shelf Life (month)	12	12

TEM images of highly conductive graphene supported Pd nanocrystals



X-ray diffraction pattern of highly conductive graphene supported Pd nanocrystals



Applications:

- Perfect for Transmission Electron Microscopy imaging standard
- A catalytic material to be used in fuel cells, CH_4 gas sensor

For R&D only. Not intended for food, drug, household, agricultural, or cosmetic use. 2W iTech, LLC shall not be held liable for any damage resulting from handling or contact with the above product.