

# Certificate of Analysis

## Graphite Nanoparticle


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Key Spec Table

CAS #	EC Number	Hill Formula	Molar Mass	Grade Value
7782-45-5	789- 56-3	C	12 g/mol	LR

Pricing & Availability on Quotation

Description	
Catalogue Number	102757
Product Information	
CAS number	308068-56-6
EC number	789-56-2

Product Information	
Grade	Nano
Hill Formula	C
Molar Mass	12g/mol
HS Code	2838
I	
Physicochemical Information	
Density	1.4 g/cm <sup>3</sup>
Melting Point	3698 °C
Bulk density	2200 kg/m <sup>3</sup>
Safety Information according to GHS	
Hazard Pictogram(s)	
Hazard Statement(s)	H410: Very toxic to aquatic life with long lasting effects.
Signal Word	Warning

**Safety Information according to GHS****RTECS**

GL7900000

**Storage class**

10 - 13 Other liquids and solids

**WGK**

WGK 3 highly hazardous to water

**Safety Information****Categories of danger**

harmful, dangerous for the environment

**Storage and Shipping Information****Storage**

Store at +2°C to +30°C.

**Specifications****Assay (oxygen demand as C )** $\geq 55.0 \%$ **Chloride (Cl)** $\leq 0.005 \%$ **Total carbon (C)** $\leq 0.002 \%$ **Total nitrogen (N)** $\leq 0.002 \%$ **Total sulfur (as SO<sub>4</sub>)** $\leq 0.005 \%$

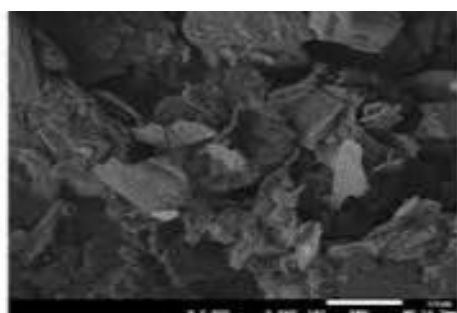
## Specifications

Nanoparticle Size

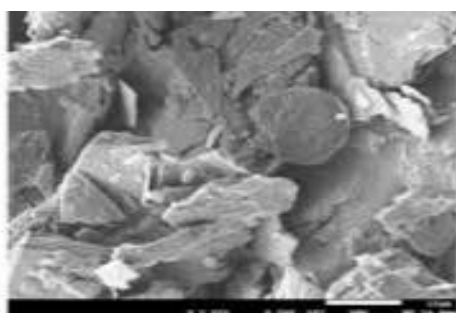
30nm 60nm 100nm

XRD PSA

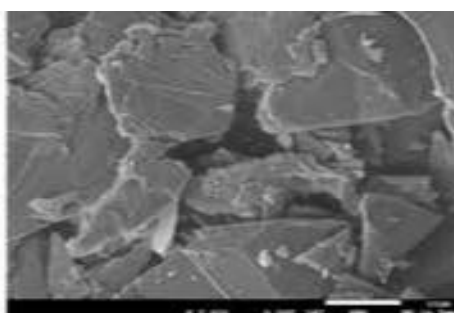
Sem –



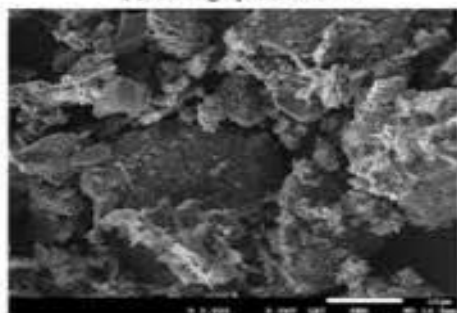
(a) Flake graphite F3204



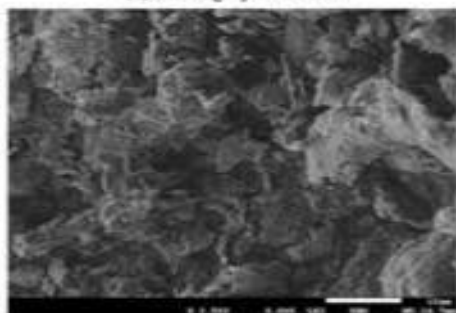
(b) Flake graphite F146



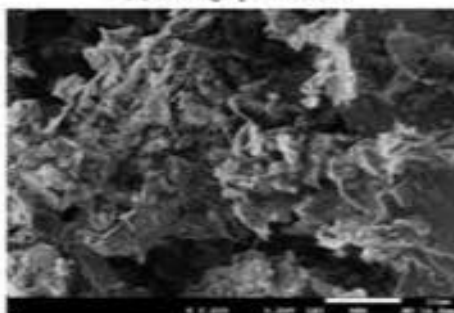
(c) Flake graphite F516



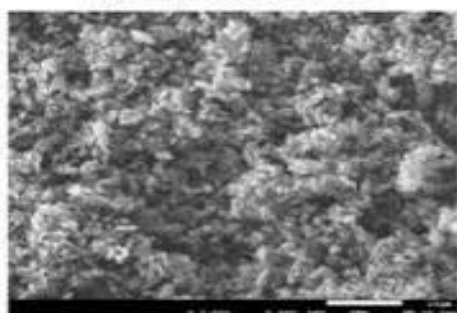
(d) Amorphous graphite A505



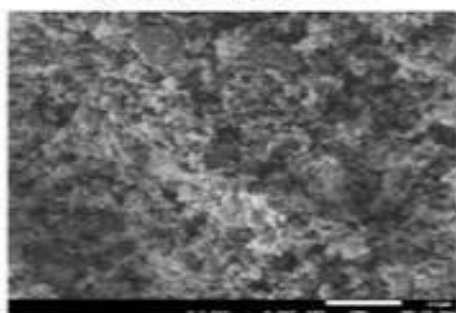
(e) Amorphous graphite A508



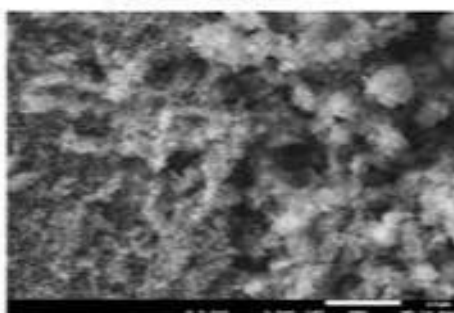
(f) Synthetic graphite A99



(g) Ultra-high-surface-area graphite SA4827



(h) High-surface-area graphite TC307



(i) Carbon black CB5303

XRD:-

