



## TECHNICAL DATA SHEET

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**PRODUCT:** Graphene Powder

N008-P-10 CAS# 7782-42-5

### GENERAL CHARACTERISTICS:

Fine greyish-black carbon in powder form

### DESCRIPTION:

Fluffy, Light Powder

### PRODUCT DETAILS:

Average lateral dimension: 7  $\mu\text{m}$   
Thickness: 30 - 50 nm  
Oxygen content: < 1%  
Specific surface area: 20 - 30  $\text{m}^2/\text{g}$   
Tap density: 0.05 - 0.15  $\text{g}/\text{cm}^3$   
Average aspect ratio: 140 - 230 : 1

Carbon by wt%\*:  $\geq 96.00\%$   
Hydrogen by wt%\*:  $\leq 1.00\%$   
Nitrogen by wt%\*:  $\leq 0.20\%$   
Oxygen by wt%\*:  $\leq 1.00\%$   
Ash by wt%\*:  $\leq 2.50\%$

### PARTICLE SIZE DISTRIBUTION:

MT10\*: Approx. 2  $\mu\text{m}$   
MT50\*: Approx. 6.8  $\mu\text{m}$   
MT90\*: Approx. 20  $\mu\text{m}$

### PHYSICAL SIZE DISTRIBUTION:

Average lateral dimension (x & y)\*:  $\leq 7 \mu\text{m}$   
Average through-plane dimension (z)\*: 50 - 100 nm

\* Performed by outside test facility

\*\* As estimated by BET and particle size distribution data

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Please contact Global Graphene Group for the most current technical information.

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