

Graphene -A+ Battery Grade



High surface area graphene with excellent electrical and thermal conductivity, many particles thickness go down to single-layer graphene. It is easily dispersible in various battery solvents such as NMP.



THICK: ~0.8-1.6 nm

ADG-A+

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PRODUCT FEATURES

ADG-A+

Purity: >99%

Advantages

- ▶ It has exceptional electrical conductivity, allowing for efficient electron transport within the battery system.
- ▶ Easily dispersible in many solvents.
- ▶ The increased surface area provides more active sites for electrochemical reactions, facilitating higher energy and power densities.
- ▶ Its high surface-to-volume ratio and ability to accommodate ions on its surface make it an ideal material for enhancing the capacity of batteries, leading to long-lasting power sources.
- ▶ It can withstand repeated charge and discharge cycles without significant performance degradation, resulting in a longer battery lifespan.
- ▶ It can offer faster charging capabilities due to its high electrical conductivity and efficient ion diffusion.

Applications

Lithium-ion Batteries
(Li-ion)

Sodium-ion Batteries
(Na-ion)

Aluminium-ion Batteries
(Al-ion)

Zinc-Ion Batteries (Zn-Ion)
Lead Acid Batteries

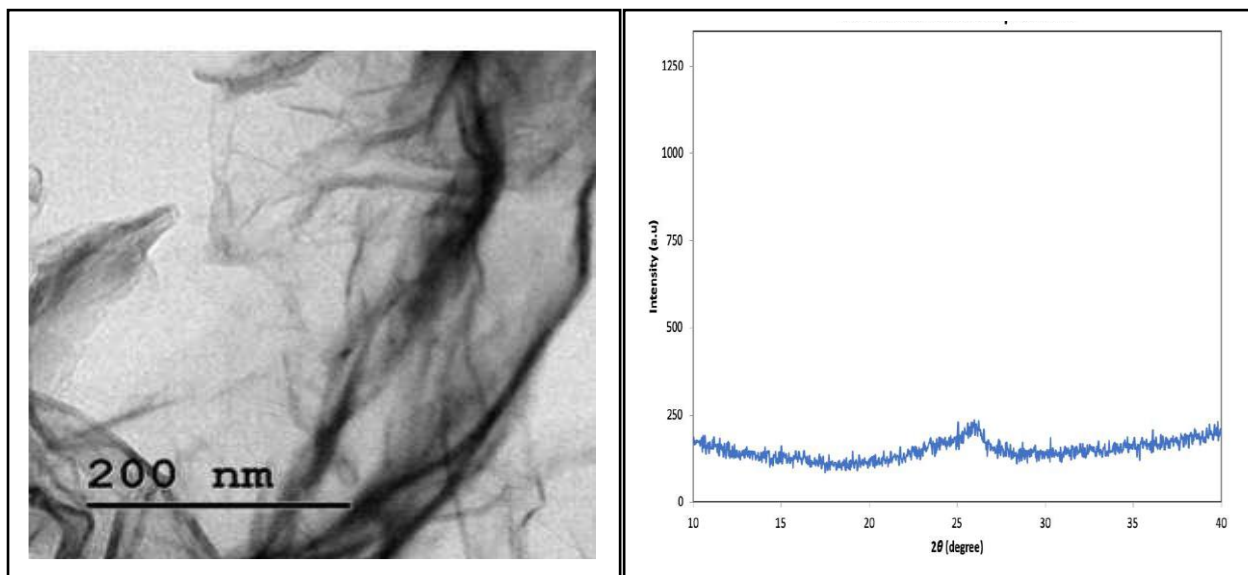
Electronics and Electrical
Applications

Super Capacitor

TECHNICAL DATA SHEET

SPECIFICATION

ADG-A+	DESCRIPTION
PURITY	>99%
PRIMARY LATERAL DIMENSION	<1 μ
PARTICLE SIZE	D50: < 30 μ
THICKNESS	0.8 – 1.6nm
BULK DENSITY	0.014 g/cm ³
PHYSICAL FORM	FLUFFY POWDER
COLOUR	BLACK
SURFACE AREA	~ 400 m ² /g
CAS NO.	1034343-98-0



DISCLAIMER

The values are typical and are for very general guidance and must not be used as a basis for specifications as concrete. Information contained in this publication, and otherwise supplied to users, is based on our general experience and is given in good faith, but we are unable to accept responsibility in respect of factors which are outside our knowledge or control. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. Please refer to MSDS of respective product for safe use.