## **Graphene** -X **Composite Grade**



Used as a reinforcing filler in composite materials due to its exceptional mechanical, electrical, thermal and barrier properties. It enhances the performance of composite at very low cost on matrix.



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**ADG-X** 

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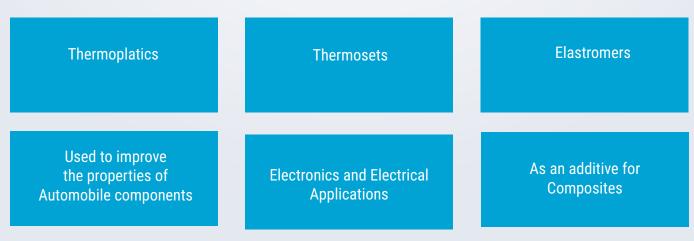


### PRODUCT FEATURES

Advantages

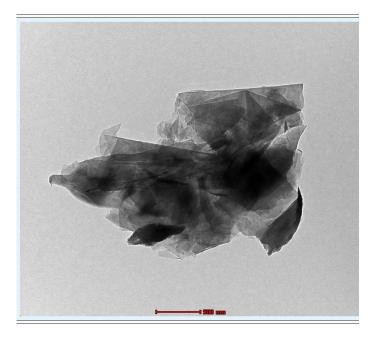
- When incorporated into a composite material, graphene sheets or nanoplatelets can significantly increase its tensile strength, toughness, and stiffness, leading to enhanced structural performance.
- Its high electrical conductivity allows it to act as a conductive filler in composites, improving their electrical properties.
- It can facilitate the efficient transfer of heat, resulting in enhanced thermal conductivity and heat dissipation capabilities.
- When incorporated into composites, it can enhance their barrier properties, preventing the diffusion or permeation of substances.
- It can integrated into composites using various manufacturing techniques, such as solution mixing, roll mixing and melt blending

# Applications



## TECHNICAL DATA SHEET

$\mathcal{N}$	ADG-X	DESCRIPTION
	PURITY	>99%
$\sum$	PARTICLE SIZE	D50: <20µ
	THICKNESS	5-10 nm
$\supset$	BULK DENSITY	~0.11 g/cm <sup>3</sup>
	PHYSICAL FORM	POWDER
$\sum$	COLOUR	BLACK
	SURFACE AREA	~ 120 m²/g
	CAS NO.	1034343-98-0



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