

# Graphene -P

## Paints and Coating Grade



When this grade is incorporated into the primer with less zinc content, it forms a dense and impermeable barrier layer that prevents moisture, oxygen, and corrosive agents from reaching the substrate. This barrier protection significantly reduces the risk of corrosion and extends the life span of the coated surface and environmental friendly coating.

THICK: ~1-5 nm



**AdNano Technologies Pvt. Ltd.,**

#31L, 2nd Cross, KIADB Machanahalli Industrial Area,  
Shivamogga - 577 222, Karnataka, INDIA

+91 82967 34214/15

[www.ad-nanotech.com](http://www.ad-nanotech.com)

[info@ad-nanotech.com](mailto:info@ad-nanotech.com)



# PRODUCT FEATURES

# ADG-P

Purity: > 99%

## Advantages

- ▶ Its excellent impermeability to gases, liquids, and corrosive substances makes it an ideal candidate for enhancing the barrier properties of anti-corrosion coatings
- ▶ It helps in providing superior protection against corrosion, extending the lifespan of ships, offshore platforms, buoys, and other marine structures.
- ▶ Graphene's strong bonding properties enable improved adhesion between the coating and the substrate, ensuring better protection against corrosion.
- ▶ Graphene can enhance the interfacial adhesion strength and reduce the risk of delamination or detachment of the coating, which can be a common cause of corrosion initiation.
- ▶ It can facilitate the flow of electrons and enhance the efficiency of cathodic protection, thereby minimizing the corrosion rate on metal surfaces.

## Applications

Infrastructure Protection

Marine and Offshore

Industrial Equipment

Aerospace and Aviation

Oil and Gas Industry

Automotive Industry

# TECHNICAL DATA SHEET

## SPECIFICATION

ADG-P	DESCRIPTION
PURITY	99%
PARTICLE SIZE	D50: <10 $\mu$
THICKNESS	1-5 nm
BULK DENSITY	0.05 g/cm <sup>3</sup>
PHYSICAL FORM	POWDER
COLOUR	BLACK
SURFACE AREA	~ 200 m <sup>2</sup> /g
CAS NO.	7782-42- 5



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