

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.



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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 μ
THICKNESS	1-5 nm
BULK DENSITY	0.05 g/cm ³
PHYSICAL FORM	POWDER
COLOUR	BLACK
SURFACE AREA	~ 200 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.