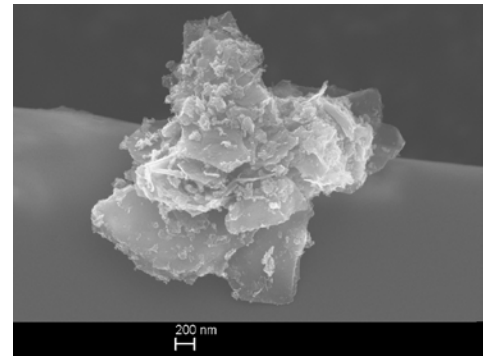


PBX[®] 300G GRAPHENE-BASED ADDITIVE

Performance conductive additive for lead acid batteries

PBX 300G graphene-based performance additive is designed to improve cycle life in lead acid applications that require deep discharge. PBX 300G performance additive can also be used in applications that require low-temperature high-rate discharge. PBX 300G performance additive is typically added to a negative electrode paste in loadings that range from 0.25-0.75 wt%, alone or in combination with other PBX additives depending on the application performance requirements.



Due to its unique morphology, PBX 300G performance additive is easy to disperse and process during preparation of the negative electrode paste. Because of its good conductivity and low metallic impurity, PBX 300G performance additive can be a good choice for use in a variety of advanced lead acid battery applications.

Incorporating PBX 300G performance additive into a negative electrode paste can:

- ◆ Improve battery cycle life in deep discharge applications
- ◆ Maintain high discharge rates at low temperatures
- ◆ Reduce negative plate sulfation
- ◆ Improve negative electrode conductivity

Battery applications

- ◆ E- bikes
- ◆ Energy storage systems (ESS)
- ◆ Micro-hybrid vehicles

PBX[®] 300G GRAPHENE-BASED ADDITIVE

TYPICAL PROPERTIES

PROPERTY	VALUES	TEST METHOD
BET Nitrogen surface area (m ² /g)	270 - 350	ASTM D6556
Oil Adsorption Number (OAN) (ml/100g)	100 - 140	ASTM D2414
Iron (ppm)	<30	CTM*
Total Co, Cr, Cu, Fe, Mn, Ni (ppm)	<50	CTM*

*CTM – Cabot Test Method based on international standards

The data in the table above are typical test values intended as guidance only, and are not product specifications. Product specifications are available upon request from your Cabot representative.

General characteristics

- ◆ Chemical name: graphene aggregates
- ◆ Aspect: Fine powder
- ◆ CAS number: 7782-42-5

Product form and logistics

- ◆ Product form: powder
- ◆ Regional availability: global
- ◆ Packaging size: 10 kg containers

For more information contact battery.materials@cabotcorp.com

For information on product-specific storage conditions, please refer to the applicable Safety Data Sheet (SDS) available from your Cabot representative or at cabotcorp.com.

The PBX name is a registered trademark of Cabot Corporation.

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