

Ashine-GCP-032

产品说明



专注研发，只为更高品质

一、产品简介

1. Ashine-GCP-032产品具有完整的类石墨烯结构，片径小，径厚比大，具有优异的导电性和良好的润滑性。
2. 本产品因表面含有丰富的含氧官能团，在有机相（如NMP、乙二醇、松油醇、乙二醇单丁醚醋酸酯等）和高分子材料中具有较好的分散性。
3. 本产品适合应用于电子浆料，复合材料，锂电导电剂等。在有机体系中具有较好的润湿性和分散性，可与其他功能材料在体系中形成良好的复合。

二、产品参数

产品编号	GCP-032
外观	黑灰色粉体
厚度 (nm)	1~5
碳含量 (wt.%)	97.5±0.5
氧含量 (wt.%)	2.0±0.5
灰分 (wt.%)	<0.05
比表面积 (m ² /g)	65±10
振实密度 (g/L)	90~120
D50 (μm)	1.0~1.5
D90 (μm)	2.0~2.5
D100 (μm)	3.0~4.0
电导率 (S/m)	8000~10000

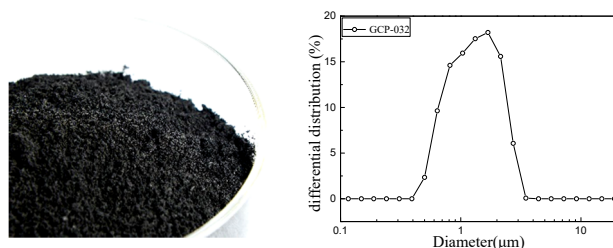


图1. Ashine-GCP-032 产品图和粒度分布分析

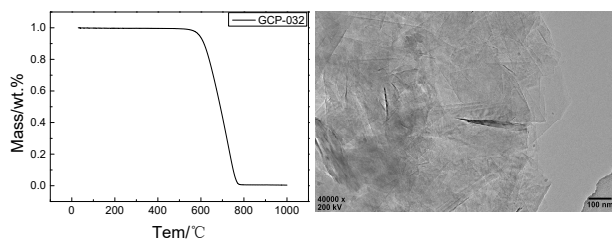


图 2. Ashine-GCP-032 产品TGA分析和TEM图谱

三、应用情景举例

1. Ashine-GCP-032产品作为高温烧结型电子浆料的导电添加剂，可有效改善浆料的流变性以及连接料与功能相的分布形态，协同功能相在浆料体系中形成良好的欧姆接触，提高浆料的导电性等。在电子导电浆料中具有独特的性能优势。
2. Ashine-GCP-032作为复合材料的主体材料或添加剂，可有效改善材料的电子传输，提高导电性等，其复合后的材料可广泛应用于增强增韧和导电复合材料，柔性电路和射频识别标签的电子浆料等领域。

四、注意事项

使用安全：本产品为黑灰色粉末，蓬松质轻、易飘散，对人体肺和呼吸道有害，使用时请做好粉尘防护。

贮存运输：请在常温密闭条件下保存本产品。

本说明书为简要产品说明，具体产品说明请登录公司网站 www.ashinecarbon.com 查看及下载。

如果对上述内容存在任何疑问或需要相关文献，欢迎联系我们: Sales@ashinecarbon.com

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Ashine-GCP-032

Product Information



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I. Product Overview

1. Ashine-GCP-032 has a complete graphene-analogous structure. It has such features as small plate diameter and high radius-thickness ratio. Its electrical conductivity and lubricity are excellent.
2. The surface of the product is grafted with abundant oxygen-containing functional groups, allowing it to be easily dispersed in organic phases (such as NMP, DMF, ethylene glycol, terpinol, ethyl alcohol, ethylene glycol monoethyl ether acetate, and so on) and polymer materials.
3. This product can be used in electronic pastes, composite materials, conductive agents for lithium batteries and other fields. It has excellent wettability and dispersibility and blending property with other functional materials in the organic system.

II. Product Parameters

Product No.	GCP-032
Form	Black gray powder
Thickness (nm)	1~5
Carbon content (wt.%)	97.5±0.5
Oxygen content (wt.%)	2.0±0.5
Ash content (wt.%)	<0.05
BET (m ² /g)	65±10
Tap density (g/L)	90~120
D50 (μm)	1.0~1.5
D90 (μm)	2.0~2.5
D100 (μm)	3.0~4.0
Electric conductivity (S/m)	8000~10000

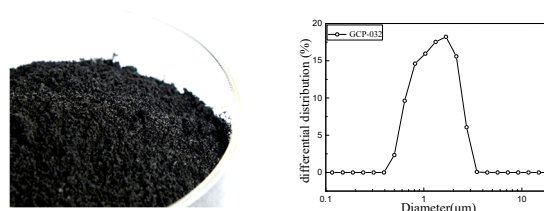


Figure 1. Ashine-GCP-032 Product and Particle Size Distribution Curve

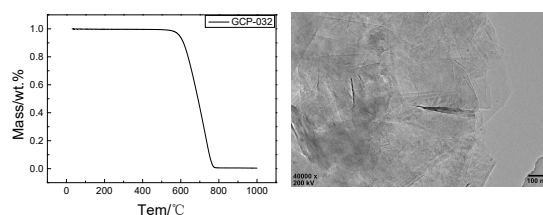


Figure 2. TGA analysis and TEM Image of Ashine-GCP-032

III. Application Example

1. As the conductive additive to high-sintering electronic pastes, Ashine-GCP-032 can significantly improve the rheological property of pastes and the distribution pattern of vehicles and phases. When this product is mixed with functional phases in the paste, they can form excellent ohmic contact and therefore enhance the electrical conductivity of the paste. Particularly, it has unique performance advantages in the electronic conductive paste.

2. As the major material or the additive to composite materials, Ashine-GCP-032 can effectively improve materials' electron transport and electrical conductivity. Composites materials can be widely used in reinforcing and toughening composite materials, conductive composites, flexible circuits and RFID electronic pastes and so on.

IV. Notice

Safe use: This product consists of black and gray powder which is fluffy and light and prone to float. As it can be harmful to the lungs and respiratory tract, please ensure appropriate dust protection when it is used.

Storage and Transportation: This product is sealed at room temperature.

This manual is a brief product description. Please visit the company's website at www.ashinecarbon.com to view and download a detailed product description. If you have any questions about the above or require the relevant literature, please contact us at Sales@ashinecarbon.com.

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