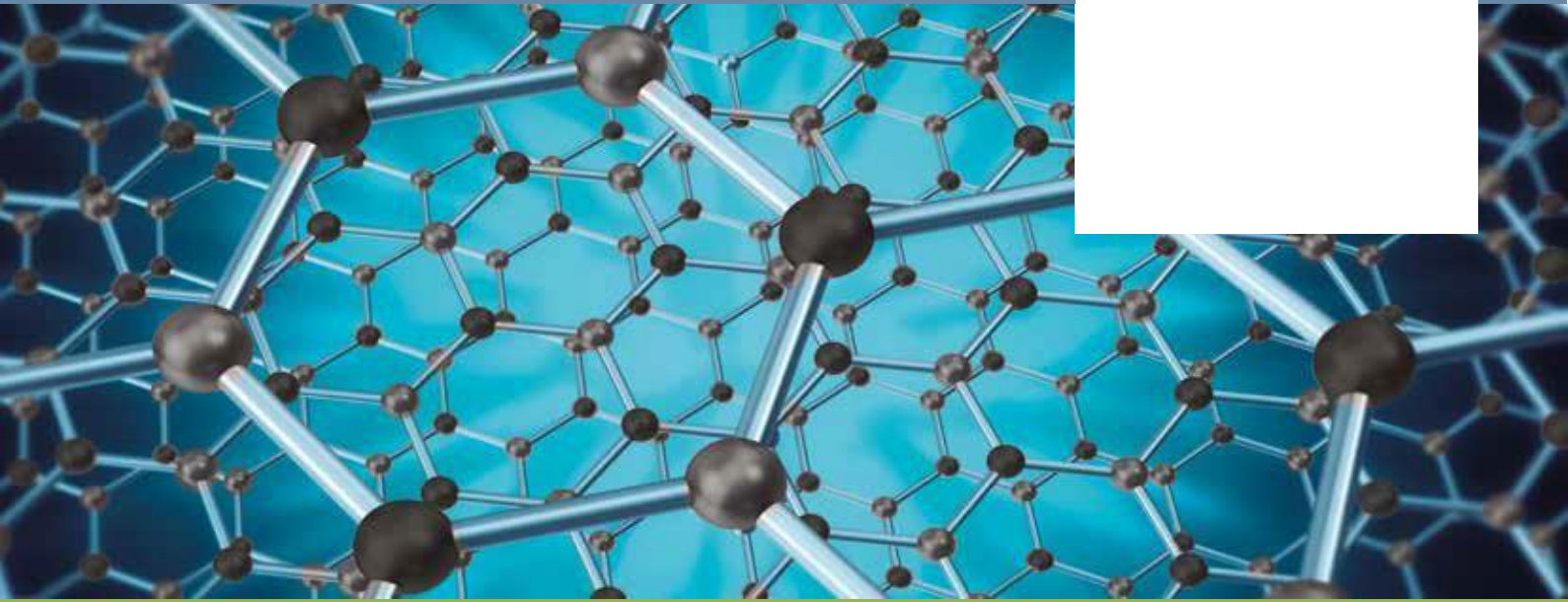


Elicarb® Graphene Products



A versatile range of high quality graphene products from a reliable supply partner.

Thomas Swan is a world leader in the manufacture and supply of carbon nanomaterials which is underpinned by our position as an independent, international, performance and fine chemicals manufacturer.

In 2014, we launched Elicarb® Graphene Powder and Elicarb® Graphene Dispersions which are premium quality, graphene nanoplatelet products. We have now extended our graphene product range to include Elicarb® masterbatches and pastes offering customised solutions and creating value added products. Our wealth of technical and manufacturing expertise, providing product development support from concept to commercialisation, including H&S and regulatory makes us unique in our field.



The advantages of Elicarb® Graphene products:

- Manufactured in a robust and scalable process delivering products of high quality and consistency
- Customised graphene nanoplatelets (GNPs)
- Carbon sp^2 layers which are substantially undamaged and non-oxidised
- Contaminants of non-carbon elements such as oxygen and transition metals are low
- Uniform particle size

All assured by the Thomas Swan commitment to reliability & quality.

Applications:

- Barrier properties for coatings and paints
- Performance additives in lubricants
- Improved thermal conductivity in composites and plastics
- Improved modulus and strength in carbon composites

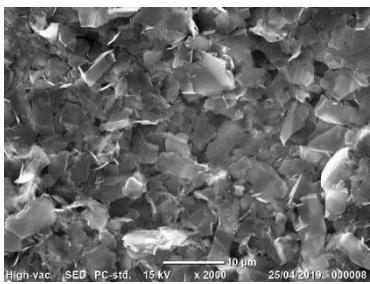

Thomas Swan
 Advanced Materials

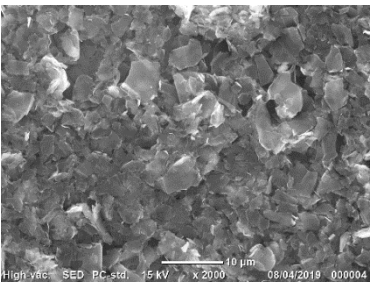
For additional information please contact:

elicarbsales@thomas-swan.co.uk
www.thomas-swan.co.uk



Committed to Responsible Care

DISPERSANT	SEM	TYPICAL PROPERTIES	FORM	PART NUMBER
Ionic		Particle size distribution: ^a Dv10 : 2 Dv50 : 4 Dv90 : 9 Sheet resistance = <25 Ω/□ ^a D/G ratio (Raman) = <0.15	DISPERSION	PR1507
			POWDER	PR0953
			PASTE	PR1504

DISPERSANT	SEM	TYPICAL PROPERTIES	FORM	PART NUMBER
Non-Ionic		Particle size distribution: ^a Dv10 : 2 Dv50 : 4 Dv90 : 9 Sheet resistance = <40 Ω/□ ^b D/G ratio (Raman) = <0.15	DISPERSION	PR1508
			POWDER	PR1501
			PASTE	PR1505

^a measured using laser scattering technique
^b normalised to 25 µm film

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