

# GRAFEN<sup>®</sup>-COOH

Carboxylated Graphene

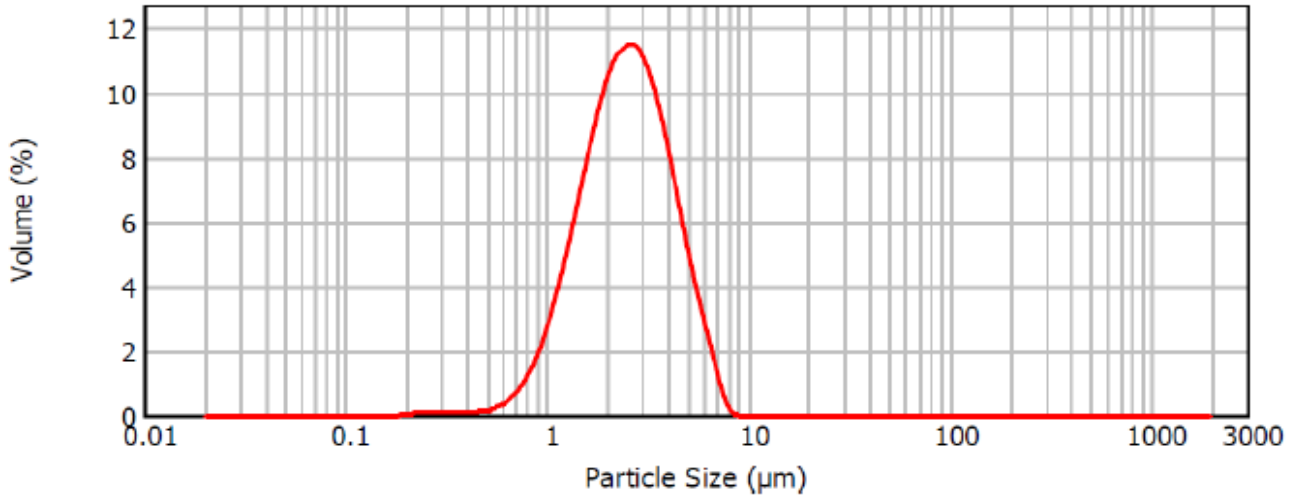
## Characterization Data Sheet

### Content:

- Pg. 1** - Technical Specifications
- Pg. 2** - Particle Sizing Dynamic Light Scattering
- Pg. 3** - Zeta Potential Distribution
- Pg. 4** - X-Ray Photoelectron Spectroscopy (XPS)

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Batch	Value	Unit	Method
C - Purity	~ 93.83	%	XPS
Color	Black/Grey		Visual
Free Amorphous Carbon	Not detectable		SEM/TEM
Bulk Density	~ 215	kg/m <sup>3</sup>	EN ISO 60
Specific Surface Area	~ 25	m <sup>2</sup> /gr	BET Analysis
Typical GNP Planar Size	~ 0.3 - 5	μm	TEM
Typical GNP Thickness	< 50	nm	SEM/TEM
GNP True Density	2.2	g/m <sup>2</sup>	Theoretical
Zeta Potential	- 20 --39.7	mV	LD
Acid Number	~ 10	KOM/mg	Titration



d0.1 = 1.234 µm

d0.5 = 2.481 µm

d0.9 = 4.681 µm

