



Graphene Oxide for Marine Paints: Next-Generation Protection





Graphene Derivatives for Marine Paints: Next-Generation Protection

Marine environments demand the most from protective coatings—constant exposure to saltwater, extreme temperatures, mechanical abrasion, and biofouling create unparalleled challenges.

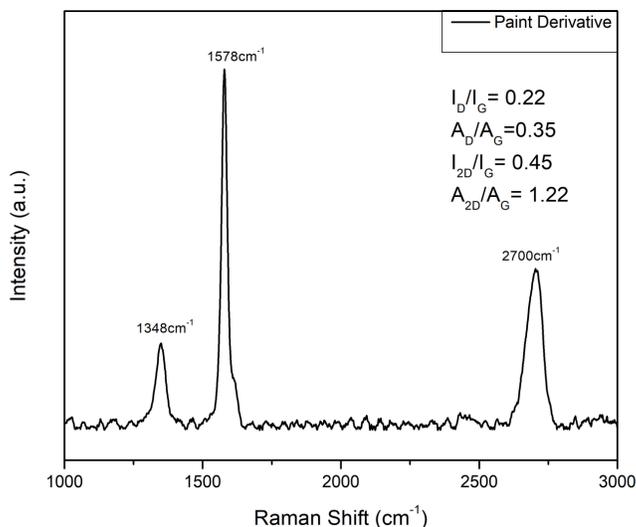
Our derivative serves as an impermeable atomic barrier for saltwater and oxygen penetration at molecular level with low dosage (0.5-1%) compared to conventional additives at 3-5% loading.

Dramatically reduces corrosion rates even in harsh saline environments

Consistent batch-to-batch performance with minimal defects

Prevents heat-induced degradation and blistering common in marine applications

Raman Characterization of Our Derivative:



Technical Specification of Base Material

Specific Surface Area (BET)	->400 m ² /g
Thermal Conductivity	2700-4500 W/mK
Electrical Conductivity	128(+/- 2)S/m
Thickness	0.7-1.8 nm
Odour	Odourless
Solubility	Insoluble
Dispersibility	D.I Water, DMF, DMSO, NMP

The data contained in this brochure is based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, the data does not relieve processors from carrying out their own investigations and tests; neither does the data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.