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.

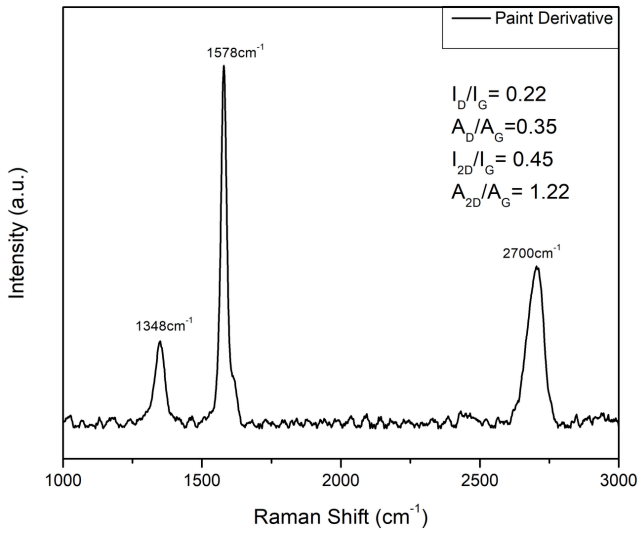
Our derivative serves as an impermeable atomic barrier for saltwater and oxygen penetration at molecular level with low dosage (0.5-1%) compared to conventional additives at 3-5% loading.

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 m2/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