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Graphene – a game changer in coatings technology

Control

Graphene Based

Applications:
- Industrial Coatings
- Naval & Offshore
- Aerospace
- Automotive
- Construction
- ....And beyond

Typical – results - 3000hrs test in salt spray
Graphene – Remarkable performance

How to realise what is potentially the most disruptive material of the 21st Century

- Mechanical
  - 100X stronger than steel
  - Stiffer than diamond

- Electrical
  - 60% greater conductivity than copper

- Thermal
  - 5X conductivity of Al

- Impermeable
  - Vacuum tight to helium gas

- Transparent
  - Circa. 98% optical transmission

- Lubricating
  - Very low surface shear

• Isolated in 2004 at University of Manchester
• Nobel prize in 2010

AGM expertise is in delivery of graphene solutions
AGM Platform Technology

- Graphene potential:
- Current early adopters
  - Coatings
  - Composites
  - Elastomers
  - Polymers
  - Inks
  - Textiles
  - Battery R&D

Future Potential
- Bio-Medical
- Concrete
- Conductive technology
- Consumer electronics
- Batteries
- Polymer technologies
- Filtration

Various forecasts around a $200m 2021 market for graphene powders with high CAGR
AGM Unique Selling Points

CHALLENGE FOR ALL GRAPHENE COMPANIES - How to unlock potential

• USP – AGM Manufactures high-spec Graphenes via patented bottom-up process.

• USP – AGM’s Patented dispersion chemistry - key enabler for successful use

• USP – AGM’s Application Technology – clear understanding of end-use need and how to achieve it

• USP – AGM’s “How-To” data enables easy use of graphene

• USP – WITH AGM, KEYS FOR USE OF GRAPHENE for:-
  • Coatings
  • Composites
  • Printing
  • Adhesives
Coatings Market Opportunity

• Global Market for Paints and Coatings c. $150Bn
• Significant opportunity for coatings technology
  $60Bn Market in China
• 35-40% of the paint and coatings manufacturing is used to protect or finish industrial products, classified as a “product finish.” (IHS Markit)
• Large number of manufacturers to engage
• Targeting anti-corrosion primers
• Potentially a $7Bn market for specialty primers with attractive volumes
• Even at low loadings of graphene, volumes are substantial

Source – European Coatings

Substantial market opportunity for graphene
Or.....look at the problem

**FIGURE 1**

COST OF CORROSION IN INDUSTRY CATEGORIES
($137.9 BILLION)

- Infrastructure 16.4% ($22.6 billion)
- Utilities 34.7% ($47.9 billion)
- Government 14.6% ($20.1 billion)
- Transportation 21.5% ($29.7 billion)
- Production and Manufacturing 12.8% ($17.6 billion)

Percentage and dollar contribution to the total cost of corrosion for the five sector categories analyzed.

Clear need for better corrosion control coatings
AGM Graphene Solutions can satisfy this need

“Corrosion Costs and Preventive Strategies in the United States”
PUBLICATION NO. FHWA-RD-01-156
Graphene – a game changer in coatings technology

Performance extension from 1000 to 5000 hours by using Graphene
A-GNP loading 0.5% by weight in final coating

Control | Genable® 3000 Series
--- | ---
900 hours | 900 hours
2000 hours | 3000 hours
4000 hours | 5000 hours

Outstanding performance advantage
Innovative Solutions for Coatings

- **Graphene for barrier performance & anti-corrosion**

  - **Corrosion Mitigation**
    - Exceptional anti-corrosion performance
    - Enhanced Corrosion control

  - **Asset Life Extension**
    - Life extension to coatings
    - Maintenance cost reduction

  - **Environmental Solutions**
    - Lower VOC and toxics
    - Water-based technology

**Graphene really works in coatings**

- Added value solution for Coatings manufacturers
- Cost effective solution for End User / Asset Manager
- Read-across to multiple market opportunities
Real Customer Products. Real Opportunities

James Briggs
Applied Nano Systems
HMG
Alltimes Coatings
Genable®
Aerospace
AGM graphene for composites

Dispersions chemistry enables graphene platelets to be added easily for wide range end use applications in composites, adhesives, elastomers, printing, and platform technology.

Applications include aerospace, automotive, space, defence, and sports.
AGM graphene for thermal performance

Dispersion chemistry enables graphene platelets to be added easily for wide range end use
Focus on momentum

Accelerate!

Revenue
• Ready for revenue
• Customer product launches
• Distribution channels in place and ready

Know How
• End to End customer engagement
• Dispersion and Application know how

IP
• Solid IP base
• Commitment to product development

Success
• Deep engagement with current markets
• Broad Graphene applications potential
• New market opportunities
Thankyou for your attention