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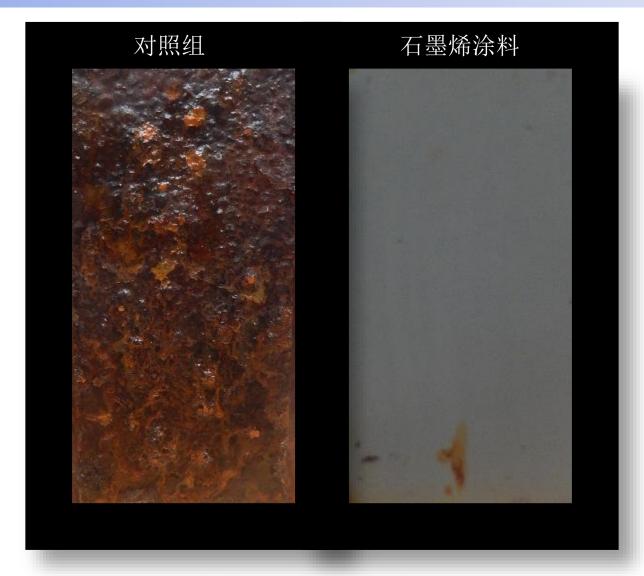
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AGM公司在伦敦股票交易所AIM市场上市(代码: AGM.L)

### 石墨烯:涂料技术变革



典型结果: 经过3,000小时盐雾试验

### 石墨烯:令人瞩目的性能



- 2004年在英国曼彻斯特 大学分离而成
- 2010年获得诺贝尔奖

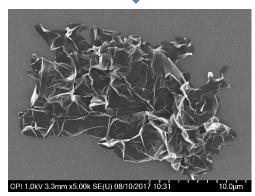
<u>如何最大化利用这种可能是21世纪最具颠覆性的材料</u>

### AGM独特卖点

### <u>所有石墨烯公司共同面对的挑战:如何释放潜力</u>

- 令AGM脱颖而出的差异化因素:
- 独特卖点:AGM通过自下而上的专利工艺,制造高规格石墨烯
  - 独特工艺技术用于制造石墨烯纳米片
- 独特卖点:AGM获得专利的分散体化学:实现成功使用的关键促成因素
  - 契合应用的一系列化学工艺
  - 绿色环保的解决方案
  - 符合最终用途的优化分散技术
  - 延长添加剂的使用期限
  - 便于运输





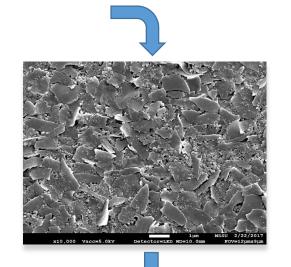




### AGM独特卖点

### <u>所有石墨烯公司共同面对的挑战:如何释放潜力</u>

- 令AGM脱颖而出的差异化因素:
- 独特卖点:AGM的应用技术:明确理解最终用途的需求及其如何实现
  - 与最终客户深入互动
  - 了解目的与需求
  - 定制解决方案:针对最终用途
- 独特卖点:AGM的独家工艺协助轻松使用石墨烯
  - 庞大的数据支持诉求
  - 提供教学与知识,协助客户
  - 为使用纳米材料提供法规指导
- · 独特卖点:与AGM携手合作,释放石墨烯用途:
  - 涂料
  - 复合材料
  - 印刷
  - 粘合剂





### 石墨烯的巨大潜力

- 当前早期应用
  - 涂料
  - 复合材料
  - 弹性体
  - 高分子聚合物
  - 油墨
  - 纺织品
  - 电池研发

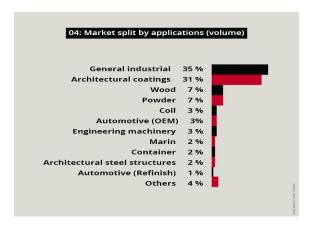
- 未来潜力
  - 生物医学
  - 混凝土与建筑工程
  - 导电技术
  - 消费电子
  - 电池平台技术
  - 工程聚合物技术
  - 过滤
  - 润滑剂

- 关键挑战: 如何将这种材料投入应用?
- 各方预测, 2021年石墨烯粉末市场的规模约为2亿美元, 并且可达到较高的年复合增长率(CAGR)

## 潜在市场应用:涂料

- 全球涂料市场规模约为1500亿美元
- 中国市场规模约为600亿美元
- 35-40%的涂料与涂层制造用于对工业品进行保护或表面处理,分类为"产品处理"(HIS Markit)
- 需要大量制造商参与
- 焦点在于防腐底漆
- 特种底漆市场的价值可能高达70亿美元





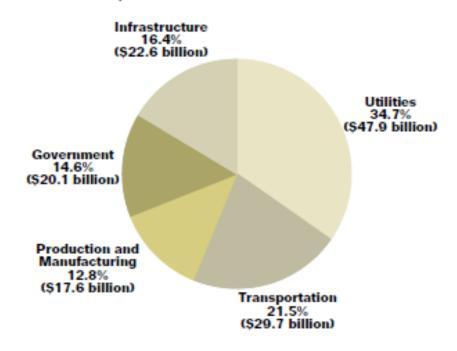
资料来源:《欧洲涂料》

### 石墨烯代表庞大的市场商机

### 因腐蚀而造成的损失

#### FIGURE 1

# COST OF CORROSION IN INDUSTRY CATEGORIES (\$137.9 BILLION)



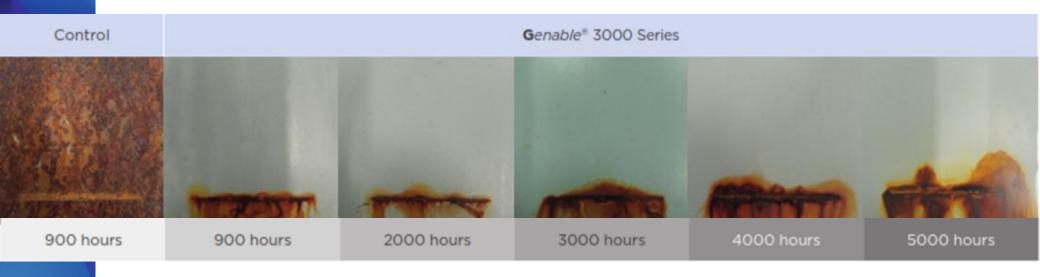
Percentage and dollar contribution to the total cost of corrosion for the five sector categories analyzed.

### 对于能够更完善对抗腐蚀的涂料存在明确需求 而AGM石墨烯解决方案恰好能满足这一需求



### 石墨烯:涂料领域的突破性成果

### 在最终涂层中加入重量比例0.5%的 石墨烯A-GNP, 可将性能提高5倍



### AGM技术是实现性能成功的关键



石墨烯用于阻隔性能 与防腐





缓蚀

独树一帜的 防腐性能

增强腐蚀防 止 延长资产寿命

延长涂层寿

降低维护成 本 环保解决方案

降低挥发性 有机物(VOC) 与有毒物质

水基技术

# 商业客户:涂料市场

**James Briggs** 

**Applied Nano Systems** 

**HMG** 

**Alltimes Coatings** 



航空航天业









**CONFIDENTIAL** 

## 商业客户:复合材料

复合材料、粘合 剂、弹性体













客户: F1赛车与汽车行业、 世纪钓鱼竿公司、航空航天工装公司

### 商业客户:热力性能

功能性材料





客户:空中客车防务及航天公司、Puraglobe润滑 剂公司

### 中国市场机遇

