

Haydale Graphene Industries plc

(“Haydale” or the “Group”)

Distribution Agreement for Graphene Enhanced PLA Filaments for 3D Printing

Haydale Graphene Industries plc (AIM: HAYD), the Group focused on the application and sale of enabling technology for graphene enhanced materials and products is pleased to announce that Haydale Composite Solutions Ltd (“HCS”) a wholly owned subsidiary of Haydale has appointed 3DFilaPrint as its distributor of their graphene enhanced 3D Printing PLA filaments in the United Kingdom and Ireland (“Agreement”).

Following the launch of Haydale’s graphene enhanced PLA filaments (see Company announcement dated 11 August 2016), HCS received over 140 enquires from universities, 3D printers, 3D equipment manufacturers and 3D filament distributors from all over the world at the recent TCT show in Birmingham. 3DFilaPrint and HCS also gave out over 100 test sample spools to potential customers.

3DFilaPrint are now selling Haydale graphene enhanced PLA on their website (<http://shop.3dfilaprint.com>) which is going to be the first of a family of graphene enhanced thermoplastic filaments with improved mechanical, electrical, thermal or physical property improvements. This first graphene enhanced PLA has already been sampled by several 3D printers who have confirmed it out performs engineering polymers such as ABS and PETG in terms of temperature performance, is very easy to print, provides an excellent surface finish, has improved first layer and inter-layer adhesion with excellent dimensional stability and reduced warpage.

Further details of the Agreement

The Agreement is initially for a period of one year. The Agreement includes certain order quantities of products expected to be purchased each quarter by 3DFilaPrint from HCS (such amounts increasing quarterly over the initial duration of the contract). The expected order quantities are not however guaranteed

Gerry Boyce, Managing Director of HCS commented:

“We are very pleased with the successful launch of this new product at the TCT show and positive feedback from the 3D printing trials conducted on our graphene enhanced PLA. Since commencing our collaboration with 3DFilaPrint, it was evident they were ideally suited to be our distributor in the UK and Ireland. We continue to receive interest from companies all over the world wishing to act as distributors for Haydale, which we will assess. In addition, we are comforted by the number of large industrial companies approaching us to develop bespoke materials for their individual needs.”

Commenting on the UK and Ireland distributorship, Tim Kay from 3DFilaPrint commented:

“During printing trials, we were very impressed with the graphene enhanced PLA filament and can see a major opportunity to offer this new material in the market place. PLA based filaments are relatively easy to 3D print with and the addition of graphene has made this into a material with engineering or industrial properties and we look forward to working with our clients and HCS on selling this material into the market place as well as advising on the next generation of products.”

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About Haydale

Haydale has developed a patented scalable plasma process to functionalise graphene and other nanomaterials. This enabling technology can provide Haydale with a rapid and highly cost-efficient method of supplying tailored solutions to enhance applications for both raw material suppliers and product manufacturers.

Functionalisation is carried out through a patented low-pressure plasma process that treats both mined, organic fine powder and other synthetically produced nanomaterial powders, producing high-quality few layered graphene and graphene nanoplatelets. The process can functionalise with a range of chemical groups, with the level of functionalisation tailored to the customer's needs. Good dispersion improves the properties and performance of the host material and ensures the final product performs as specified.

The Haydale plasma process does not use wet chemistry, nor does it damage the material being processed; rather, it can clean up any impurities inherent in the raw material. The technology is a low energy user and most importantly environmentally friendly. The Haydale process is a patented enabling technology, allowing the Group to work with a raw material producer who seeks to add value to the base product and tailor the outputs to meet the target applications of the end user.

Haydale, based in South Wales and housed in a purpose-built facility for processing and handling nanomaterials, is facilitating the application of graphene and other nanomaterials in fields such as inks, sensors, energy storage, composites, paints and coatings.

www.haydale.com Twitter: @haydalegraphene

About Haydale Composite Solutions (HCS)

Haydale Composite Solutions Ltd (“HCS”) is based in Loughborough UK and is a wholly owned subsidiary of Haydale Graphene Industries plc (“HGI”). HCS (previously known as EPL Composite Solutions Ltd was acquired by HGI in November 2014) has developed a reputation for delivering innovative solutions in the commercial applications of advanced polymer composite materials working with global companies over more than 20 years. HCS are tasked with developing new markets and applications for graphene enhanced nanocomposite materials across a broad range of industries.