



Press Release

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DSM (China) Ltd.

No. 476 Li Bing Road, Zhangjiang Hi-Tech Park, 201203 Pudong New area, Shanghai China

www.dsm.com

Carbon with Dyneema®: a perfect marriage for light weight performance

Royal DSM, the global Life Sciences and Materials Sciences Company, is launching a hybrid composite solution named Carbon with Dyneema® at Chinaplas 2018. Dyneema®, the world's strongest fiber™, significantly improves the performance of pure carbon composites in terms of impact resistance, vibrational dampening and weight. Join us in building a shatterproof world.

The lightweight strength of Carbon with Dyneema® will be presented at the Chinaplas in Shanghai, 24-27 April 2018. Ongoing projects will be highlighted that demonstrate how Carbon with Dyneema® improves the performance of sports and automotive motorsports products that currently rely on pure carbon composites. Imagine a hockey stick with a better feel through reduced vibration, or a rally racecar component that does not shatter on impact - and that's just for starters.

The popularity of pure carbon is easy to explain: "It's strong, stiff, lightweight and easy to process. But it's not so good at handling impacts," notes DSM Dyneema VP Innovation Koen Janssen. Carbon also splinters when it breaks, which can cause injuries. By marrying carbon with Dyneema®, impact energy absorption can be increased more than 100% while removing the risk of splintering. Carbon with Dyneema® composites are also lighter, less brittle and more vibration dampening than pure carbon composites.

As part of a hybrid composite, Dyneema® can bring its lightweight strength to products currently using pure carbon composites - covering everything from golf clubs to racing bikes to steering wheels. The possibilities are endless.


Come visit the DSM stand (Booth at 7.2 hall, D71) at Chinaplas and meet with one of our Dyneema® experts.

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About Dyneema®

Dyneema®, the world's strongest fiber™ is DSM's premium brand for Ultra High Molecular Weight PolyEthylene (UHMWPE) fiber, UD and fabric. Dyneema® combines maximum strength with minimum weight. It is 15 times stronger than quality steel and 40% stronger than aramid fiber, both on weight for weight basis. Industries like law enforcement, defense, maritime, offshore, medical, sports & leisure, fishing, outdoor, automotive, renewable energy, and personal protective equipment rely on Dyneema® for its lightweight, protective and durable properties. Innovative applications with Dyneema® fibers and form factors are continuously evolving and expanding. Further information on Dyneema® is available at www.dyneema.com. Dyneema® and Dyneema®, the world's strongest fiber™ are trademarks of DSM. Use of these trademarks is prohibited unless strictly authorized.

DSM - Bright Science. Brighter Living™

Royal DSM is a global science-based company active in health, nutrition and materials. By connecting its unique competences in life sciences and materials sciences DSM is driving economic prosperity, environmental progress and social advances to create sustainable value for all stakeholders simultaneously. DSM delivers innovative solutions that nourish, protect and improve performance in global markets such as food and dietary supplements, personal care, feed, medical devices, automotive, paints, electrical and electronics, life protection, alternative energy and bio-based materials. DSM and its associated companies deliver annual net sales of about €10 billion with approximately 25,000 employees. The company is listed on Euronext Amsterdam. More information can be found at www.dsm.com. Or find us on: 

About DSM China

DSM began trading with China in 1963 and established its first China sales office and first manufacturing facility in the early 1990s. The DSM China regional headquarters and the China Science and Technology Center are located in Shanghai. The company currently has 46 affiliates in China, including 22 manufacturing sites, and employs about 4,700 people there. DSM's China business is growing healthily and steadily, with a sales revenue for its continuing operations of around RMB7.2 billion in 2016. For more information can be found at www.dsm.com.cn.