



— PRESS RELEASE —

## **Biosteel® fibers from AMSilk receive certification for product safety and confirmation of biological degradability**

**Planegg, December 14, 2016** – AMSilk GmbH has reached a further important milestone in its business segment Industrial Applications & Textiles: The high standards of the production and product development process at AMSilk as well as the biological degradability of the AMSilk Biosteel® fibers were confirmed by two renowned institutes: the Hohenstein Institute and the SGS Institute Fresenius.

Product safety and biodegradability are highly relevant to Biosteel® products. In November, AMSilk together with adidas presented in New York the world's first high-performance sports shoe, with an upper material entirely consisting of the completely biodegradable AMSilk Biosteel® fibers. This makes AMSilk the first biotech company to have market-ready functional products with biotechnologically produced functional silk biopolymers. Previously, AMSilk had succeeded in producing the high-performance Biosteel® fiber on an industrial, near-production scale as well as in producing Biosteel® fabrics.

### **Certification in accordance with OEKO-TEX® Standard 100**

The Biosteel® fiber received the certification in accordance with OEKO-TEX® Standard 100 (Confidence in Textiles) for product class 1 by the renowned Hohenstein Institute. This certification shows that the Biosteel® fibers reach the highest standard for textile applications. Textiles receiving this certification have been submitted to tests regarding pollutants and product safety, and in the case of product class 1 are without reservation also suitable for babies and children below the age of 3.

### **Biological degradability in accordance with OECD 301B**

Furthermore, SGS Institute Fresenius confirmed that the AMSilk Biosteel® fibers are biodegradable. The silk material was subjected to a standard test examining the biodegradability in accordance with OECD Norm 301B and was defined as „readily biodegradable“. This is the best test result possible.



### **Development of further Biosteel® products**

"The sports shoes made of nature-identical silk biopolymers and developed together with adidas set new standards regarding the sustainability and functionality of textiles. Further products currently in development with renowned international cooperation partners from industry and textile branch will follow," said Jens Klein, CEO of AMSilk.

### **About Biosteel®**

Biosteel® fiber made by AMSilk is a nature-based high-performance bionic fiber. The material is completely biodegradable and therefore does not harm the environment. Furthermore, similar to wool, the Biosteel® fibers are able to absorb moisture and transport it to the outside, have anti-microbial properties and are especially robust and well-tolerated by the skin.

Biosteel® fibers can be used for all functional textile applications. However, its use is not restricted to the textile sector, Biosteel® technology also offers manifold applications across industries for example in automotive and aviation. Due to its functional properties and the wide range of applications in products and industries Biosteel® products offer a huge market potential.

### **About AMSilk**

AMSilk GmbH is the world's first industrial supplier of synthetic silk biopolymers and has its headquarters in Planegg near Munich, Germany. Sustainably produced using a patented biotechnological process, AMSilk high performance biopolymers have the unique functional properties of the natural product they are based on. The organic high-performance material can be used in multiple ways, including in medical or technical products as well as cosmetic ingredients. AMSilk high-performance biopolymers give everyday products unique properties. Among other things, the polymers are biocompatible, breathable and especially robust.

AMSilk high-performance biopolymers are distributed in the form of Silkbeads (microparticles), Silkgel (hydrogel) or Biosteel® (fibers). They are currently used



in coatings for medical technology products, in the textile industry and as an ingredient in personal care products.

[www.amsilk.com](http://www.amsilk.com)

[www.biosteel-fiber.com](http://www.biosteel-fiber.com)

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