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# AMBER COMPOSITES

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## **Amber Composites Announces High Temperature Prepreg To Be Deployed on Leading Unmanned Aircraft**

Amber Composites today announced the availability of a new high performance prepreg system which is capable of withstanding very high temperatures. C740 is a flame-retardant Cyanate Ester resin system of medium viscosity which cures at 135°C (275°F). It is pre-impregnated into high performance fibres such as Carbon, Glass and Kevlar. Post-cure peak temperatures can be as high as 344°C (651°F).

Amber's C740 was developed for high performance aerospace and automotive applications. The first commercial application is an Unmanned Aerial Vehicle (UAV) produced by Schiebel. The CAMCOPTER® S-100 is a highly versatile autonomous UAV system developed to provide a unique balance between advanced capabilities and operation in tactical environments. The system consists of a compact helicopter aerial vehicle that can be fitted with a wide variety of payloads, tailored to meet diverse user requirements.

Amber and Schiebel have been working together for the past five years to develop, test and deploy technologically extremely advanced material for its UAV products, in a constant effort to minimize component weight.

"Our partnership with Amber Composites has exceeded our expectations. In our five years working together, Amber has not only consistently provided excellent high-quality materials, but also useful technical and design guidance", said Hans Georg Schiebel, the owner of Schiebel.

Schiebel's strategy of decreasing weight has resulted in a UAV with extremely high vehicle performance and payload potential. A technical highlight is the patented center fuselage, which is designed as composite monocoque, but also serves as fuel tank. Schiebel will be using Amber's C740 to decrease the weight of the exhaust system and the engine.

"Just through the use of Amber's C740 on these two key areas we are able to decrease the overall weight of the vehicle's structure by another few percent", said Carsten Gäbler, Schiebel's Head of Composite Development & Production.

### **About Amber Composites**

Amber Composites is a leading manufacturer of composite materials for the creation of high performance, lightweight structures. With over 20 years of experience, Amber Composites provides materials and technical expertise to a diverse set of industries, including Motorsport, Automotive, Aerospace, Communications, Marine and Wind Energy.

[www.ambercomposites.co.uk](http://www.ambercomposites.co.uk)

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### **About Schiebel**

Founded in 1951, the Vienna-based Schiebel Group of companies focuses on the development, testing and production of state-of-the-art mine detection equipment and the acclaimed CAMCOPTER® S-100 Unmanned Aerial Vehicle System. Schiebel has built an international reputation for producing quality defence and humanitarian products, which are backed by exceptional after-sales service and support. All products are quality controlled to meet ISO 9001 standards. With headquarters in Vienna, Austria, Schiebel now maintains production facilities in Wiener Neustadt, Austria, as well as offices in Warrenton, VA, USA, and Phnom Penh, Cambodia.

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**About the CAMCOPTER® S-100:**

Schiebel's latest CAMCOPTER® S-100 UAV System has been developed to carry various sensors for both military and civilian applications. The Aerial Vehicle is launched automatically via Vertical Takeoff and Landing (VTOL), eliminating the need for a prepared area or additional launch and recovery equipment. It navigates via pre-programmed GPS waypoints, or can be operated manually through a simple, yet highly stable, flight control system. The S-100, like its predecessor, is capable of landing on helicopter deckequipped ships without the use of additional landing equipment. Its AV fuselage is a carbon fibre monocoque providing maximum capacity for a wide range of payload/endurance combinations. In a standard configuration, the AV is capable of carrying a 55 lbs payload for up to 6 hours.

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