

World First

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Evonik to present new single-component resin system – ideal for aircraft manufacturing

Cynthia Thomas
Phone +1 973 541-8194
Fax +1 973 541-8199
cynthia.thomas@evonik.com

Evonik Industries will introduce a newly developed polyaryl ether amide resin system at this year's technical conference of the Society for the Advancement of Material and Process Engineering (SAMPE) in Wichita, Kansas. The resin, sold under the brand name CALIDUR®, is a single-component system that is particularly suitable for applications in aircraft manufacturing. Thanks to its improved fiber adhesion, the product improves the mechanical properties of bonded fiber materials to create components with both high compressive strength and shear strength.

Because of its exceptional mechanical properties, CALIDUR® is particularly suitable for use in structural components. The material stands out for its high temperature resistance, low moisture absorption, and good resistance to chemicals, as well as low exotherm and minimal shrinkage in the curing process. Fabrics treated with CALIDUR® also are significantly more flame retardant than those treated with conventional epoxy resins. As a result, CALIDUR® is suitable for interior aircraft applications in the aerospace industry, especially since the system is formaldehyde free. CALIDUR® also features good shelf-life stability at room temperatures and an excellent price-performance ratio. A scientific presentation on the product's properties will accompany the market launch at the technical conference.

About Evonik

Evonik Industries is the creative industrial group from Germany which operates in three business areas: Chemicals, Energy and Real Estate. Evonik is a global leader in specialty chemicals, an expert in power generation from hard coal and renewable energies, and one of the largest private residential real estate companies in Germany. Our strengths are creativity, specialization, continuous self-renewal, and reliability. Evonik is active in over 100 countries around the world. In its fiscal year 2008 about 41,000 employees generated sales of about €15.9 billion and an operating profit (EBITDA) of about €2.2 billion.

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Evonik Degussa GmbH

Weißfrauenstraße 9
60287 Frankfurt am Main
Germany
Phone +49 69 218-01
Fax +49 69 218-3118
www.evonik.com

Supervisory Board

Dr. Klaus Engel, Chairman

Board of Management

Patrik Wohlhauser, Chairman
Ralf Blauth, Dr. Thomas Haeberle

Registered Office is Essen
Register Court
Essen Local Court
Commercial Registry B 20227