ROYAL TEN CATE

Press release

corporate communication

TenCate named as co-recipient of 2011 JEC Composite Innovation Award on thermoplastic composite aircraft seat application

TenCate Advanced Composites USA in Morgan Hill (California, USA) is pleased to announce that a composite design utilizing TenCate thermoplastic prepregs is the recipient of a 2011 JEC Composite Innovation Award. TenCate Cetex® brand of PPS-based thermoplastic composite unitape is utilized in Cutting Dynamics award winning composite aircraft seat design.

The 2011 JEC Thermoplastic Composite Innovation Award will be awarded to Cutting Dynamics Inc., with TenCate Advanced Composites, A&P Technology and Ticona Engineering Polymers, which teamed to develop a thermoplastic modular composite seat frame used in passenger seat assemblies on lighter, more fuel-efficient aircraft.

The award will be presented during the 2011 JEC Awards ceremony at 5 p.m. Tuesday 29 March, during the JEC Show in Paris, France. The 2011 JEC award winning modular composite seat frame from Cutting Dynamics consists of a match molded seat back and seat pan that supports the seat cushion. The frames depend on TenCate Cetex® TC 1100, a PPS / carbon fiber unitape that is braided into a pre-form by A&P Technology, then shaped by Cutting Dynamics into a complex tube using a process that is capable of achieving high volumes unique in the aerospace industry.

Jim Mondo, TenCate Advanced Composites Vice President of Thermoplastic Technology notes: “This is truly a team award made possible by the innovations of each of the recipients with a special recognition to Cutting Dynamics who developed the process and optimized the material form that allowed this new composite seat design. We find it especially significant that several companies including TenCate Advanced Composites, A&P Technology and Ticona Engineering Polymers contributed in their areas of expertise to make this innovation possible.”

A&P Technology designed and engineered a braided preform from the TenCate Cetex® TC1100 unitape that exactly meets the geometry and mechanical requirements of the seat frame. This collaboration allowed Cutting Dynamics to reduce process cost, increase process volume, and improve both product aesthetics and overall quality.

Royal Ten Cate
Almelo, the Netherlands, Tuesday 15 February 2011

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Digital pictures are on your request available via: media@tencate.com

Links to the 2011 JEC Innovation Award and contributors:

- **JEC Composites** — www.jeccomposites.com/innovation
- **Cutting Dynamics Inc.** — www.cuttingdynamics.com
- **TenCate Advanced Composites USA** — www.tencateadvancedcomposites.com
- **A&P Technology** — www.braider.com
- **Ticona Engineering Polymers** — www.ticona.com/composites

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TenCate Advanced Composites USA is a leading developer and producer of thermoset and thermoplastic prepreg composites for space and aerospace and industrial applications. Prepreg materials of TenCate Advanced Composites are used in commercial aircraft, satellites, helicopters, general aviation, aircraft interiors, radomes and unmanned vehicles. TenCate Advanced Composites has facilities in Europe and North America.

Royal Ten Cate (TenCate) is a multi-national company that combines textile technology with related chemical processes and material technology in the development and production of functional materials with distinctive characteristics. Products of TenCate are sold worldwide.

Systems and materials from TenCate come under four areas of application: safety & protection, space & aerospace, infrastructure & the environment, and sport & recreation. TenCate occupies leading positions in protective fabrics, composites for space and aerospace, anti-ballistics, geosynthetics and synthetic turf. TenCate is listed on the NYSE Euronext (AMX).

TenCate Cetex® TC 1100 is a Fortron® PPS thermoplastic based unitape provided on standard and intermediate modulus fiber. The benefits of thermoplastic unitapes include damage tolerance, utilization with automated placement, room temperature storage, fire resistance and structural load capabilities.