HexWeb® Acousti-CAP®
broadband sound reducing honeycomb

HexWeb® Acousti-CAP® is Hexcel’s broadband sound-reducing honeycomb that enables engine designers to achieve superior acoustical performance, including dramatic noise reduction during takeoff and landing without a structural weight penalty.
HexWeb® Acousti-CAP® enables aircraft engine designers to achieve superior acoustical performance, including dramatic noise reduction during take off and landing, without a structural weight penalty. This marks an improvement on current technology, which requires trade-offs between weight and noise reduction. Acousti-CAP® consists of a non-metallic permeable cap material embedded into an honeycomb core to create an acoustic septum.

Hexcel’s customers specify the flow resistance characteristics they want in the product, as well as overall core thickness, numbers of caps in a cell, and insertion depth. The result: a product tuned to their acoustic requirements.

Both new and current engine designs may benefit from adoption of Acousti-CAP’s remarkable new technology.

An Aluminum version of Acousti-CAP® is also available that provides comparable broadband noise reducing performance, with added cost-savings benefits.

Aluminum Acousti-CAP® can withstand temperatures of up to 175°C/350°F during fabrication of the nacelle core blanket and is processable using industry-standard techniques for forming, joining, cutting and machining.
Non-Metallic HexWeb® Acousti-CAP®
consists of permeable cap material embedded into a
honeycomb core to create an acoustic septum.

Seaming Technology
Hexcel's innovative seaming technology delivers a "spliceless" part for greater structural integrity.

Aluminum HexWeb® Acousti-CAP®
provides comparable broadband noise reducing
performance, with added cost-savings benefits.
Hexcel Product Family

- HexTow® Carbon Fiber
- HexFlow® Resins
- HexMC® Molding Composite
- HexFlow® Resins
- HexPly® Prepregs
- Polyspeed® Laminates
- HexTOOL® Tooling Material
- HexForce® Reinforcements
- Modipur® Polyurethane
- HexWeb® Engineered Core
- HiTape® Advanced Reinforcements
- Redux® Adhesives
- HexWeb® Honeycomb Core

For more information
Hexcel is a leading worldwide supplier of composite materials to aerospace and other demanding industries. Our comprehensive product range includes:

- Carbon Fiber
- Reinforcement Fabrics
- Carbon, Glass, Aramid and Hybrid Prepregs
- RTM Materials
- HexTOOL® composite tooling material
- Structural Film Adhesives
- Honeycomb Cores
- Engineered Core

For US quotes, orders and product information call toll-free 1-800-688-7734.

For other worldwide sales office telephone numbers and a full address list, please go to:
http://www.hexcel.com/contact/salesoffice