

3M Aerospace & Aircraft Maintenance
Fire Smoke and Toxicity (FST) Solutions



3M Solutions
that meet
FST Standards



3M's FST product range uniquely offers adhesives, void fillers and films that comply with aerospace fire smoke and toxicity standards when tested stand alone without the need for additional treatments or surface coatings. The new high performance range simplifies the aircraft interior manufacturing process reducing costs and increasing efficiency. The properties of this range not only increase the safety of passengers on board aircraft but many also enhance safety in the manufacturing process.

Scotch-Weld™ 7246-2 B/A FST

- Believed to be the world's first two part structural epoxy adhesive to meet aerospace fire smoke and toxicity (FST) standards (when tested standalone).
- Meets the requirements laid down by FAR 25.853 (a) flaming mode, JAR 25.853 (a) flaming mode and ABD 0031 & AITM 2.0002A.
- Removes manufacturing tasks by allowing builders to complete assembly and FST compatibility operations in a single step.
- Room-temperature curing structural two-part epoxy paste adhesive system.
- Thixotropic, non-sag formulation makes it easy to apply without dripping or deformation
- Compatible with most common aerospace interior substrates including aluminium honeycomb, polycarbonate, glass/phenolic panels, polyetherimide and polyphenylsulfone
- Resistant to damage by water, salt spray, jet fuel and mineral oils.



Scotch-Weld™ 3450 FST

- First one-part void filler containing halogen-free FST system meets FST requirements.
- Meets Airbus ABD 0031 directive and the FAR 25.853 / JAR 25.853 standard.
- Typical applications include floor panels, overhead stowage compartments, side and partition walls.
- Co-cures with the surrounding materials, to save steps in manufacture.
- Halogen-free FST system offers an improvement in operator health and safety aspects during the manufacturing process.



Scotch-Weld™ 3550 B/A FST

- The first low density, room temperature curing, two part void filler that offers the combination of extrudability, low density and meets FST requirements.
- Meets Airbus ABD 0031 directive and the FAR 25.853 / JAR 25.853 standard.
- Saves on manufacturing time as it reduces steps for the process.
- Reduces reactive material exposure improving operator health and safety during the manufacturing process.
- Typical applications include overhead stowage compartments, galley and lavatory structures as well as side and partition walls.



Scotch-Weld™ AF3070 FST

- First adhesive film for aerospace sandwich panels that fulfils stand alone FST regulations.
- Thermo-foaming film with an advanced epoxy adhesive.
- Halogen-free FST system that allows it meet FST requirements Airbus ABD 0031 and the FAR 25.853 standard.
- Typical applications include overhead luggage compartments, partition walls and fixed wall, ceiling and floor panels.
- Used to finish edges, splice cores and fill gaps in honeycomb sandwich panels.
- During cure, which can take place at 120°C or 180°C expands between 35 and 80 percent, filling gaps and providing a strong, safe bond.





Now also available, 3M has developed a set of flame retardant products which offer ideal solutions to a number of applications giving a combination of added value and onboard safety.

Flame Retardant Sealing Tape 367FR/ 398FR

Glass Cloth Tape 398FR is produced to Boeing aircraft specification, and has fire retardant properties making it an ideal solution for a number of applications.

Typical applications include:

- Sealing cargo bay panels
- Sealing seams on aircraft ducting (warm and cold air duct sealing in high and low velocity systems)

3M™ Scotchmate™ Nylon Reclosable Fastener SJ3519FR Hook and SJ3518FR Loop

3M™ Scotchmate™ Reclosable Hook and Loop Fasteners offer closure alternatives to screws, snaps, hooks, bolts and more. They offer greater design flexibility, faster product assembly, smoother and cleaner exterior surfaces and improved product performance in many applications.



Typical applications include:

- Seating (fabric attachment, scratch resistance)
- Windows shade (friction fit and anti-vibration)
- Interior wall panel attachment
- Door, access and trim panels
- Storage bin back lighting

3M™ VHB™ Tape 5958FR

3M™ VHB™ Tape 5958FR is a black flame retardant double-coated 1.0 mm pressure sensitive adhesive tape for bonding a wide range of materials, including many metals, plastics and painted substrates. The foam is conformable to increase contact with the surfaces.

Typical applications include:

- Floor, door and wall panel attachment
- Plastic and metal decorative trim
- Overhead stow bins
- Seats
- Galley modules
- Air duct spuds



Aerospace & Aircraft Maintenance
3M United Kingdom plc
 3M Centre
 Cain Road, Bracknell
 Berkshire RG12 8HT
 Phone: 01344 857950
 Fax: 01344 857970
www.3M.co.uk/aerospace

Please recycle. Printed in UK.
 © 3M 2008. All rights reserved.

Please recycle. Printed in England.
 © 3M 2008. All rights reserved.