

High-performance foams for ECS ducting applications

Zotefoams **ZOTEK® F** HT Polyvinylidene Fluoride (PVDF) foam has been selected as the ECS duct material of choice by leading aviation OEMs. Manufactured using parent company Zotefoams' unique process, ZOTEK F meets exacting industry standards, providing impressive weight, noise and cost saving benefits.



Various properties enable **ZOTEK® F** to be used for ECS ducting, including;

Excellent Fire, Smoke and Toxicity (FST) performance

ZOTEK F foams exhibit excellent FST performance, meeting the requirements of FAR 25.853(d). They are also OEM-approved to BMS (871-D) and AIMS04-14-009

Lightweight

Due to Zotefoams' unique process, ZOTEK F is a truly lightweight foam. Up to 30% reduction of weight can be achieved when compared to traditional ECS materials (silicone, composites and thermoplastics)

Closed cell structure

The closed cell nature of ZOTEK F ensures high thermal and acoustic insulation values, excellent resistance to impact and crush, while offering a barrier to fluids

Heat and noise insulation

ZOTEK F's structure allows for sound energy breakout that reduces noise within the cabin

High purity

ZOTEK F foams are formed using a nitrogen expansion process that makes them pure, odourless and non-toxic

Bio inert

ZOTEK F is resistant to moisture and mould growth as well as chemicals and UV rays

Ductile and impact-resistant

ZOTEK F is flexible, impact-resistant and ductile compared to traditional rigid composite ducts, which can be easily crushed and require frequent change out

Self-insulating

ZOTEK F foams are self-insulating and do not require a post-insulating component

Assembly optimisation

ZOTEK F foams are resilient, providing assembly flexibility. Pre-assembled, ZOTEK F ECS ducts are installed as finished components. ZOTEK F integrates the pipe and insulation functions reducing the need for the use of multiple materials

Versatile configuration

ZOTEK F ECS ducting can be manufactured to a variety of standard sizes or to individual specifications

Contact Information

To request a sample or contact the sales team for any queries, please contact us at zotekglobal@zotefoams.com