

High-performance foam for aircraft carpet underlay

Zotefoams **ZOTEK® F** OSU Polyvinylidene Fluoride (PVDF) foam is an increasingly popular material for carpet underlay applications. ZOTEK F foams are manufactured from specialist engineering polymers to meet the exacting standards of aviation OEMs, and are available in flexible, semi-rigid and rigid grades. Renowned for their closed cell, crosslinked structure, ZOTEK F foams are lightweight and durable due to their unique manufacturing process.



Characteristics that enable **ZOTEK®F** to be used as carpet underlay, include;

Excellent Fire, Smoke and Toxicity (FST) performance

ZOTEK F foams are inherently flame-retardant with low heat release, have exceptionally low OSU ratings and exceed the requirements of FAR 25.853(d). They also meet 12s and 60s vertical burn tests FAR 25.853(a)

Lightweight

With densities starting at 30kg/m³ ZOTEK F is a truly lightweight material offering impressive weight savings

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

High purity

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

Bio inert capabilities

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

Mouldability

Compatible with a number of processes, ZOTEK F can be fabricated into complex three-dimensional shapes and is suitable for a whole host of aircraft interior applications

Low Volatile Organic Compounds (VOCs)

ZOTEK F foams are expanded using only pure nitrogen. Using ZOTEK F eliminates 'outgassing' – the gradual release of toxins associated with foams expanded using chemical blowing agents

Consistency

Due to the uniform cell size of ZOTEK F, typically 0.32mm, the carpet underlay has a consistent feel across every inch of the floor surface and acts as an excellent noise and heat barrier

Size and fitting

- Standard sheets sizes of 2000mm x 1000mm and available in custom thicknesses from 2.0mm to 32mm
- Can be fitted easily using standard carpet adhesive systems
- Easily handles and cut to size in situ
- Easily removeable and reusable
- Readily available

Contact Information

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