

High-performance foams for soft touch trims

ZOTEK® F OSU high-performance Polyvinylidene Fluoride (PVDF) foam is at the forefront of seating developments for aircraft interior design teams, providing a unique level of luxury. It is an inherently lightweight, flame-retardant material offering a host of beneficial characteristics for soft touch trim solutions, while complying with and exceeding demanding industry standards.



ZOTEK® F is the ideal solution for aircraft soft touch trims due to its exceptional inbuilt properties, including;

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). These characteristics give superior performance over traditional materials in more varied layouts for soft touch trim

Lightweight

With densities starting at 30kg/m³ ZOTEK F is a truly lightweight material offering impressive weight and cost savings – as much as 1.6kg on a standard aircraft seat compared with conventional soft touch trim materials

High purity

Key to the performance of ZOTEK F is a unique manufacturing process which uses only pure nitrogen to expand foams, ensuring it is odour free, non-toxic and pure

Closed cell structure

As a closed cell foam, ZOTEK F acts as a barrier to moisture, preventing corrosion. It also enables high acoustic insulation values, contributing to the reduction of noise and vibration compared with traditional seat surround panels

Bio inert

ZOTEK F has excellent chemical resistance, even to aviation fluids and chemicals, and it is biologically inert, making it resistant to mould and bacteria

Mouldability

The physical performance of ZOTEK F enables compatibility with a wide range of forming methods, allowing the production of complex shapes for applications including soft touch trims. It is also compatible with bake moulding, a popular manufacturing method for components requiring high durability, such as armrests

Heat release performance

ZOTEK F OSU materials come in flexible, semi-rigid and rigid grades offering the correct feel for any application

Grade	OSU Total (1")	OSU Peak (1")	OSU Total (1/2")	OSU Peak (1/2")	OSU Total (1/4")	OSU Peak (1/4")	OSU Total (1/8")	OSU Peak (1/8")
ZOTEK® F OSU Flexible 33 kg/m ³ 2.06: pcf	37	38	24	20	12	14	7	10
ZOTEK® F OSU Semi-Rigid 34 kg/m ³ 2.1: pcf	37	38	24	20	12	14	7	10
ZOTEK® F OSU Rigid 74 kg/m ³ 4.62: pcf	37	38	24	20	12	14	7	10

Contact Information

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