

Specialist pile textiles for aircrew seating

Precision-manufactured wool and technical pile fabrics for cockpit seat covers, pilot cushioning and other demanding aviation applications.



**Supplied to
Boeing**

ESTABLISHED AEROSPACE USE

Up to 3 kg

PER LINEAR METRE CAPABILITY

UK manufacture

CONTROLLED MILL PRODUCTION

THE JACKSON APPROACH

Aviation textiles must be developed against the complete programme brief, including comfort, conversion, testing, traceability and approval responsibilities.

What the fabric needs to deliver

Jackson Textiles applies four decades of high-pile knitting experience to aviation programmes where consistency, comfort and traceable manufacture are essential. We work with seat and interiors specialists against a controlled application brief.

Performance benefits

Long-duration comfort

A dense, resilient pile provides a cushioning interface for demanding seating applications.

Microclimate support

Wool can absorb and release moisture vapour and help moderate temperature at the occupant interface.

Compression recovery

Fibre, density and pile height can be balanced to retain loft under repeated loading.

Natural material option

British wool provides renewable fibre content with useful inherent performance characteristics.

Specification-led manufacture

Material, backing, weight, finish and inspection requirements are agreed for the programme.

Typical applications

- Cockpit seat covers
- Pilot and aircrew cushioning interfaces
- Replaceable comfort layers
- Specialist aviation seating components
- Dense-pile technical developments
- Prototype and low-volume programme support

Why Jackson Textiles

SPECIALIST CAPABILITY

Four decades of high-pile, sliver-knitted textile knowledge.

UNDER ONE ROOF

Fibre preparation, knitting, shearing, finishing and backing managed at Bowers Mill.

MADE TO SPECIFICATION

Fibre, pile height, weight, colour and finish selected around the end use.

PROGRAMME SUPPORT

Accessible development volumes for prototypes, trials and specialist production.

A specification built around the application

The design space below is indicative. The final data sheet is issued against the approved construction.

SPECIFICATION AREA	JACKSON TEXTILES CAPABILITY / TYPICAL OFFER
CONSTRUCTION	High-pile sliver-knitted fabric developed to the seat-cover or cushioning specification.
WEIGHT CAPABILITY	Constructions up to 3 kg per linear metre, subject to width, fibre, pile and backing.
FIBRE	Heavyweight British wool and other fibres or blends where the approved brief requires them.
QUALIFICATION	Flammability, smoke and toxicity, durability and approval evidence are programme-specific and agreed before supply.
SUPPLY ROUTE	Fabric supplied to aviation and interiors manufacturers; commercial format set by programme demand.
PILE AND FINISH	Pile height, density, shearing and surface finish tailored to comfort, wear and conversion requirements.
BACKING	Application-specific systems selected with the converter for dimensional stability and assembly.
MANUFACTURE	Produced at Bowers Mill, West Yorkshire, with agreed sampling and production controls.

IMPORTANT

Typical values are guidance only and are not release specifications. Product width, roll length, tolerances, tests and declarations are confirmed in the quotation and approved technical schedule.



From brief to repeatable production

We combine direct mill access with a practical sample-led route, helping customers turn a product idea into a manufacturable and commercially credible specification.

Where Jackson Textiles adds value

SEAT MANUFACTURERS

Co-develop specialist pile fabric around seat geometry and the conversion process.

MRO AND INTERIORS

Explore repeatable replacement materials with agreed performance and inspection criteria.

DESIGN AUTHORITIES

Build the material brief around measurable acceptance criteria and documented change control.

INNOVATION PROGRAMMES

Prototype at accessible volumes before scaling a validated construction.

What we need from your brief

- Aircraft and seat application
- Design-authority specification
- Comfort and compression targets
- Converter and assembly method
- Required flammability and test standards
- Traceability and documentation requirements

Development route

01

Define

Application, performance, aesthetics, volume and commercial target.

02

Select

Closest existing construction or a bespoke development route.

03

Sample

Review handle, colour, pile, backing and conversion compatibility.

04

Validate

Complete the agreed finished-product and compliance testing.

05

Approve

Lock the reference standard, tolerances and repeat-order requirements.

06

Produce

Manufacture against the approved reference standard, with repeat-order controls and recorded change management.

START A DEVELOPMENT CONVERSATION

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