

manufactured by **AUTOSTOP**<sup>®</sup>  
AVIATION



# SkyLeather<sup>®</sup>

IS THE FUTURE



Sustainable Aviation Material for Interiors

## SkyLeather®

An ingenious alternative to reconstructed leather and genuine leather. This innovative material offers advantages in aircraft seat maintenance and also stands out with regard to passengers well-being. As a Water-Based system it is friendly to the human skin, free of harmful substances and toxic by-products. **SkyLeather®** is flammability compliant with CS/FAR25.853 appendix F.

## Manufacturing

Our seat cover manufacturing facility is located adjacent to the **SkyLeather®** production facility, allowing increased efficiency by eliminating transportation costs and CO<sub>2</sub> emissions to the manufacturing plant.





## Design & Development

**SkyLeather®** is available in any colour. Our in-house laboratory provides airlines a one-stop-shop service from material design to interior seat cover manufacturing.

## Premium Outcome

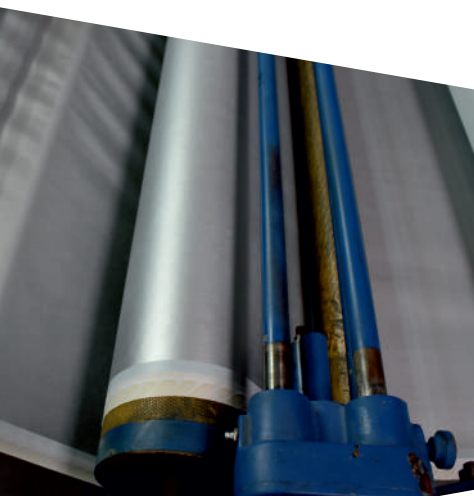
**SkyLeather®**'s soft and silky surface provides a luxurious impression that can be enhanced with decorative stitching or embroidery.

## Comfort

**SkyLeather®**'s suppleness and smooth surface delivers superior clientele comfort.

## Easy clean

The surface of **SkyLeather®** is highly dirt / grime repellant, which reduces the cleaning effort. Stain residues can be simply wiped away with cleaning systems that Autostop Aviation can offer.





## Airline Cost Savings

Compared to genuine leather hides, our water - based synthetic **SkyLeather®** is up to 25% lighter. This contributes to airline operators fuel saving initiatives. An A320 fitted with **SkyLeather®** will produce approximately the following savings per year: \$22,000 in fuel and 60,000 kg of CO<sub>2</sub>.



# SkyLeather® benefits



Eco Friendly



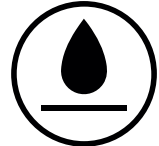
Reach



Vegan



Azo Free



Oil Resistance



Hydrolysis Resistant



Easy to Clean



Lower CO<sub>2</sub>



Chrome (VI) Free



High Scratch Resistance



Fire Resistant



Light Resistant



Xtreme Performance



PAHs Free



Humidity Resistance



DMF Free



Stain Resistance



Abrasion Resistant



Hypoallergenic



Formaldehyde Free

# SkyLeather® Technical Datasheet

## Physical Properties

- Composition: 100% Water Based PU
- Weight: 390 +/- 10% g/sqm
- Thickness: 0,60 +/- 10% mm
- Width: 145cm

## Chemical Properties

### Free of harmful substances, containing no:

- Bisphenol A,
- Low VOC (Volatile Organic Compounds),
- Conflict minerals,
- Heavy metals,
- POPs (Persistent Organic Pollutants),
- PVC and monomer residues,
- Phthalates,
- Azo dyes,
- DMF,
- Formaldehyde,
- PAH,
- Chromium VI

## Performance

### Flammability compliant:

- FAR/CS25.853 (a) App. F Part I (a) (1) (ii) Vertical Flammability V12
- FAR/CS25.853 (a) App. F Part I (a) (1) (i), Vertical Flammability V60
- FAR/CS25.853 (b) App. F Part II, Seat cushion with Fire-blocker (Oil burner test)
- FAR/CS25.853 (d) App. F Part V, Optical Smoke Density (NBS)
- ABD0031, Toxic Gas Emission

### Abrasion Resistant:

- Wyzenbeek ASTM 4157: > 400,000c no damage
- Taber (CS10-1000g) ASTM D7255 – 4,000c no damage
- Taber (H18-500g) ASTM D7255 2,500c no damage
- Martindale ISO 12947-4 – 180,000 no damage

### Mechanical properties:

- Breaking strength ASTM D751: warp – 904.00 N, weft - 727.60 N
- Tensile strength ASTM D2209: warp 40.37 Mpa, weft 39.38 Mpa
- Heat aging resistant (90°C, 240h) ASTM D751 – grade 5

### Surface:

- Resistance to crocking ISO 105-X12 grade 5
- Resistance to cleaning agents ISO 105-X12 – grade 5
- Soiling resistance (coffee, chocolate, ketchup, soil) – grade 4,5
- Resistance to Blue Dye Transfer (Denim) ASTM D4966 – grade 5
- Resistance to Dye Transfer in Storage AATCC Test Method 163 (option 2) – grade 5

**Autostop provides easy cleaning solutions that are 100% Biodegradable, ECO friendly, no single use plastics, effective when used as a system with no chlorine, solvents, and bleach or phosphates.**





## Supporting Airlines Across The Globe



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