



FabricAir® Combi Eco 80

FabricAir® Combi Eco 80 is a permeable, flame-retardant, antimicrobial, Oeko-Tex 100 certified fabric made from dope dyed yarn. It is a strong and durable fabric. It comes with an anti-microbial treatment making it especially well-suited for hygienic applications where there is a risk of mold or bacteria growth. The fabric is machine washable and retains its dimensions after washing (max. 0,5% shrinkage). The permeability is uniform (max. 5% variation) and achieved by thermo-fixation. The color is deeply embedded within the yarn, making it more resistant to fading, washing and UV exposure. The production of this fabric is more sustainable, chemical consumption and oxygen demand, water and energy consumptions are lower.

This fabric is well suited for cleanrooms and electrically sensitive environments where the accumulation of electrostatic charge is undesirable. It is rated for Cleanliness Class 3 standards as defined in ISO 14644-1 Table 1. Antistatic yarns are woven in a grid pattern creating a conductive fabric with low electrical surface resistance (<math> < 2 \times 10^3 \text{ Ohms}</math>, according to EN 1149-1) which is required to enable the installer to properly discharge the electrostatic charge by means of grounding. The fabric is washable, and its conductive properties remain effective throughout the product's lifespan.

It comes with a 10-year warranty and is supplied in 5 standard colors, with the option of printed custom colors and custom patterns.

FEATURES AVAILABLE	
Washable	Yes
Warranty, years	10
Extended warranty option	Yes
Anti-microbial	Yes
Permeable	Yes
Flame retardant	Yes
Anti-static (optional)	Yes

STANDARD COLORS AVAILABLE		
	ANTISTATIC	
3000 White		
3001 Blue		
3003 Dark Gray		
3004 Black		
3006 Light Gray		

COLORS AND PATTERNS AVAILABLE	
WITHOUT ANTISTATIC	
Coloring by surface print	
Seamless pattern by surface print	
Artwork, print	Yes
Logos, print	Yes
Lettering, print	Yes

DATA: FabricAir® Combi Eco 80

PROPERTIES

Fabric type:	Polyester	Dope dyed yarns
Weight:	275 ($\pm 7\%$) g/m ²	EN ISO 12127:1997
Thickness:	0,45 mm	EN ISO 5084:1996
Permeability:	40 ($\pm 5\%$) m ³ /m ² /h at 120 Pa	EN ISO 9237:1995
Strength - Warp:	2700 N	EN ISO 13934-1
Strength - Weft:	800 N	EN ISO 13934-1
Shrinkage:	0,5% Max.	EN ISO 5077
Heat resistance - continuous:	from -40°C to +140°C	
Heat resistance - softening:	+240°C	
Electrical surface resistance*	< 2x10 ³ Ω	EN 1149-1

* fabric with the anti-static feature selected

CODE COMPLIANCE

Reaction to fire (European Union):	B-s1,d0	EN 13501-1
Reaction to fire (Denmark):	Yes	DS 428
Reaction to fire (France):	M1	NFP 92:507
Reaction to fire (USA):	Yes	UL 723
Reaction to fire (Canada):	Yes	ULC s102.2
Cleanrooms and associated controlled environments:	Class 3	EN ISO 14644-1

PERFORMANCE CERTIFICATES

Safety Air Dispersion Systems:	Yes	UL 2518
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ADDITIONAL APPROVALS

Anti-microbial:	Yes	EN ISO 20645, EN ISO 20743, AATCC 100
OEKO-TEX®:	Yes	OEKO-TEX® Standard 100

OPTIONAL FABRICAIR INNOVATIONS

All-in-One:	Yes
360° hoops:	Yes

Disclaimer

FabricAir® believes that all data, statements, technical information, etc., listed in this Technical Data Sheet regarding the product and the use of the product are accurate and reliable. However, the product will only be covered by FabricAir®'s guarantees or warranty if the final use for the product has been approved by FabricAir® in writing. No representative is authorized to approve the final use of the product on behalf of FabricAir®.