

# Material Specification

## DFC-HT



**MATERIAL:** DFC-HT Polyester material made of High Tenacity Filament fibres and woven by the weaving mill of Euro Air. The DFC-HT materials are woven in a plain weave that combined with the heavy-duty "High Tenacity Fibres" creates a strong, even and wear-resistant textile surface. The DFC-HT material has been approved for clean room applications, ISO class 4 acc. to ISO 14644-1.

**CONSTRUCTION:** Heatset, shrinkage- and permeability-stabilized material.

Type		DFC-HT 40	DFC-HT 85	DFC-HT 325	DFC-HT 600	Standard
Weight (%) -/+5	g/m <sup>2</sup>	277	270	230	230	EN-ISO 5077
Thickness (%) -/+10	mm	0.5	0.4	0.4	0.4	EN-ISO 12127:1997
Permeability	m <sup>3</sup> /m <sup>2</sup> /h 120 Pa	40	85	325	600	EN-ISO 9237:1995
	Tolerance (%)	-25/+25	-12.5/+12.5	-6/+15	-6/+15	
Tensile strength (%) -/+10	Warp / Weft N/50mm	>1700 / >3200	>1700 / >2800	>2800 / >1300	>2200 / >910	EN-ISO 13934-1
Resistance to tearing (%) -/+10	Warp/ Weft N	130 / 150	110 / 150	200 / 160	210 / 180	EN-ISO 13937:2
*Dust retention Filter class		F7	F7	F7	F7	EN-ISO 779
**Shrinkage in wash	(%) 40°C	0.5	0.5	0.5	0.5	EN-ISO 5077
Melting point	°C	254	254	254	254	
Operating temperature	°C	80/-45	80/-45	80/-45	80/-45	
Spontaneous ignition temp.	°C	508	508	508	508	
Water absorption	[%] at 90% RH	0.4	0.4	0.4	0.4	
Electrostatic Resistance	Ohm/cm	2 x 10 <sup>10</sup>	2 x 10 <sup>10</sup>	2 x 10 <sup>10</sup>	2 x 10 <sup>10</sup>	DIN 54345
Clean room classification		Class 4	Class 4	Class 4	Class 4	ISO-14644-1
Fire resistance	B-S1-d0 Yes	B-S1-d0 Yes	B-S1-d0 Yes	B-S1-d0 Yes	B-S1-d0 Yes	EN-13501 UL 723/NFPA 90 A
Oeko-Tex®				Approved		
Cradle to Cradle™				N/A		

\*EA measurement \*\*Washed and dried according to Euro Air instruction

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