

StedAIR® Waffle XP

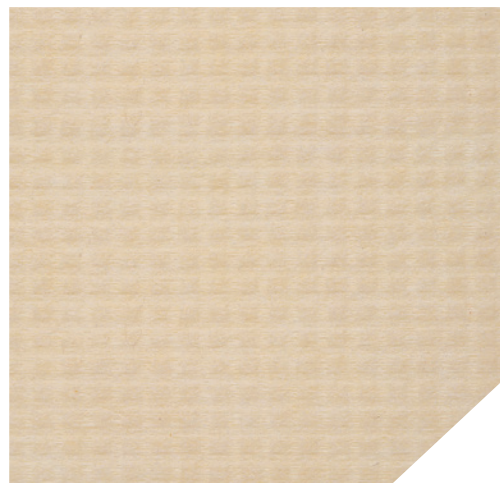
Product description

Stedair® XP164 is constructed of a hydro entangled, meta-aramid/ para-aramid face fabric laminated to a bi-component polytetrafluoroethylene (PTFE) / polyurethane (PU) membrane matrix. The enhanced bi-component membrane is comprised of a hydrophilic (water loving) and oliophobic (oil hating) coating that is impregnated into the matrix providing improved adherence of seam tape. Additional testing includes Viral and Blood Borne Pathogen Resistance (ISO 16604/ASTM F1671/ASTM F1670).

*Stedair® XP 164 is
compliant to EN469, AS4967
and Oekotex Standard 100*

Features and benefits:

- Para-aramid/meta-aramid Durable Substrate
- PTFE Bi-Component Technology
- Weight : 125 g/m²
- Resistant to Blood Borne Pathogens
- Resistant to Viral Penetration
- Resistant to Common Chemicals



Specification

Characteristics	Test Method	EN469 Requirement	Stedair® XP164																		
6.1 Flame Spread**	EN ISO 15025:2003-02	No afterglow No afterflame No occurrence of debris No formation of hole Mean afterflame <2secs	No afterglow No occurrence of debris No formation of hole Afterflame = 0 secs																		
6.2 Heat Transfer (Flame) **	EN 367:1992	<table><thead><tr><th></th><th>Level 1</th><th>Level 2</th></tr></thead><tbody><tr><td>HTI₂₄</td><td>≥9.0</td><td>≥13.0</td></tr><tr><td>HTI₂₄₋₁₂</td><td>≥3.0</td><td>≥3.0</td></tr><tr><td colspan="3">(based on lowest result)</td></tr></tbody></table>		Level 1	Level 2	HTI ₂₄	≥9.0	≥13.0	HTI ₂₄₋₁₂	≥3.0	≥3.0	(based on lowest result)			<table><tbody><tr><td>HTI₂₄</td><td>≥15</td></tr><tr><td>HTI₂₄₋₁₂</td><td>≥4</td></tr><tr><td>Level 2</td><td></td></tr></tbody></table>	HTI ₂₄	≥15	HTI ₂₄₋₁₂	≥4	Level 2	
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6.3 Heat Transfer (Radiation) **	EN ISO 6942: 2002	<table><thead><tr><th></th><th>Level 1</th><th>Level 2</th></tr></thead><tbody><tr><td>RHTI₂₄</td><td>≥10.0</td><td>≥18.0</td></tr><tr><td>RHTI₂₄₋₁₂</td><td>≥3.0</td><td>≥4.0</td></tr><tr><td colspan="3">(based on lowest result)</td></tr></tbody></table>		Level 1	Level 2	RHTI ₂₄	≥10.0	≥18.0	RHTI ₂₄₋₁₂	≥3.0	≥4.0	(based on lowest result)			<table><tbody><tr><td>RHTI₂₄</td><td>≥19</td></tr><tr><td>RHTI₂₄₋₁₂</td><td>≥7</td></tr><tr><td>Level 2</td><td></td></tr></tbody></table>	RHTI ₂₄	≥19	RHTI ₂₄₋₁₂	≥7	Level 2	
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6.5 Heat Resistance	EN ISO 17493:2000 180°C for 5 mins	Materials shall not ignite or melt Shrinkage % < 5	No melt, drip, separation or ignition Shrinkage % < 5																		
6.9 Dimensional Change	EN ISO 5077:2008	Shrinkage % Max < 5%	Shrinkage % L: < 5%																		
6.10 Resistance to penetration by liquid chemicals **	EN ISO 6530:2005	No penetration to innermost surface. Repellency rate > 80%	1. 40% NaOH > 95% 2. 36% HCl > 95% 3. 30% H ₂ SO ₄ > 95% 4. 100% o-xylene >95% No penetration																		
6.11 Resistance to Water Penetration	EN 20811: 1992 (1996)	Level 1 < 20kPa Level 2 ≥ 20kPa	> 60 kPa																		
6.12 Water Vapour Resistance (Ret) **	EN ISO 31092:1993	Level 1 > 30m ² .Pa/W Level 2 ≤ 30m ² .Pa/W	Composite = <11 m ² .Pa/W																		

ADDITIONAL STEDAIR[®] TEST DATA ABOVE AND BEYOND STANDARD

Viral Penetration	ISO 16604	No visual penetration Assay Titer (PFU/mL) <1	Pass No visual penetration <1 PFU/mL
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** tested in composite form

