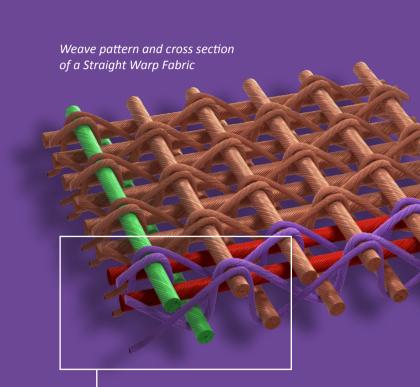
STRAIGHT WARP FABRICS

for extreme conveying

Straight Warp Fabrics are specifically engineered for conveyor belts used in demanding mining and construction industries. These fabrics deliver outstanding performance wherever heavy-duty goods need to be carried and substantial impact loads are common.

By incorporating one or two layers of Straight Warp Fabrics into the belt carcass, multiple layers of standard conveyor belt fabrics can be replaced. This results in a conveyor belt that is both thinner and stronger. Additionally, it offers significant reductions in production, energy and maintenance costs.





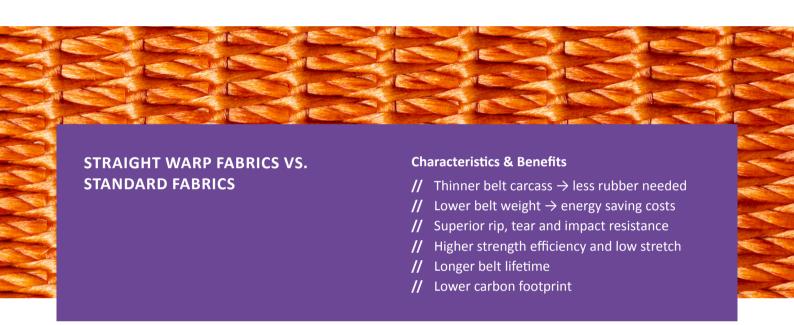
STRAIGHT WARP

These are the primary threads running lengthwise in the fabric. They provide the fundamental structure and high tensile strength of the fabric.

BINDING WARP Interlacing with the straight warp and the weft, those additional warp threads reinforce the fabric and maintain its integrity under heavy loads and impact.

The weft threads run horizontally across the fabric and contribute to its overall appearance, width and texture.

THE COMBINATION OF ALL THREE COMPONENTS ENHANCE THE STRAIGHT WARP FABRIC'S PERFORMANCE & DURABILITY.



Comparison of standard EP 200 fabric vs. Straight Warp EPP 800 Fabric:

	EP 200	EPP 800 SW	
N/mm	250	985	
%	0,86 at 1000 N 2,30 at 2000 N	1,02 at 2000 N	
g/m²	657	2148	
mm	1,00	2,90	
	% g/m²	% 0,86 at 1000 N 2,30 at 2000 N g/m ² 657	

Comparison of belt carcass EP 200/4 vs. EPP 800/1:

		EP 200	EPP 800 SW
construction	plies	800/4	800/1
fabric weight	g/m²	2628	2148
weight saving	%		19
By using one layer of EPP 800 Straight Warp Fabi	ric instead of 4 la	yers of EP 200 standard fabric, the fa	bric weight

reduction in the belt carcass amounts to approx. 19 % by same strength.

Comparison and Benefits of Aramid Straight Warp Fabrics in a Conveyor Belt:

DPP ARAMID STRAIGHT WARP FABRICS VS. STANDARD EP FABRICS VS. STEEL

	Aramid	EP	Steel
Tensile Strength	+++	+	+++
Lower Elongation	++	+	+++
Flexibility	++	+++	+
Lighter Weight	+++	+	++
Less Thickness	+++	+	++
Flame and Heat resistance	++	+	+++
Corrosion resistance	+++	++	+

sults in an ultra-strong belt by keeping a low elongation, a great belt troughability and high impact resistance, a thin belt carcass, a very low belt weight and a high resistance against corrosion.

Using Aramid in a Straight Warp Fabric re-

Weight Range | Gauge Range | Width Range

+++ Excellent | ++ Good | + Satisfactory

Tensile Strength Range

ENGINEERED FABRICS – STRAIGHT WARP FABRICS

	rabilic type Class Natinge				/ / 2\	/ /	/	
			Warp (N/mm)	Weft (N/mm)	(g/m²)	(mm)	(mm)	
	PES Straight Warp EPP / EEP / EEE	315 – 2000	370 – 2300	50 – 460	1040 – 5230	1,80 – 5,80	800 – 2400	
	Aramid Straight Warp DPP / DEP	315 – 3500	400 – 3850	150 – 460	820 – 3600	1,75 – 4,70	800 – 2400	
Different treatments are possible to enable outstanding adhesion to appropriate rubber compounds like CR, EPDM, NR, NBR, SBR.								

VULCANIZED VS.

TECHNICAL DATA

MECHANICAL SPLICING Straight Warp Fabrics are designed for

- different belt splicing: Vulcanized or mechanical splicing. // Vulcanized splicing: This process chemically bonds two conveyor belt
- ends together through the application of heat and pressure, creating a seamless joint.



exceeding textile performance

since 1837