



A GUIDE TO
SRF'S BELTING FABRICS

SRF LIMITED

9,000+
Global Workforce

₹ 14,358 CRORE
(US\$ 1.7 BILLION)
Turnover in FY25

16
Manufacturing Facilities

5
Operations in Countries*

100+
Exports to Countries

*India, Thailand, South Africa, Dubai and Hungary

BELTING FABRICS OVERVIEW

-  World's Leading Manufacturer with a Capacity of 22,000 MTPA
-  Manufacturing in Viralmalai, Tamil Nadu
-  Latest German & Japanese Technology
-  Globally Local with Exports to 20+ Countries
-  One-Stop Solution for Various Fabrics Going into Automotive, Rubber, Industrial Use etc.



Standard Fabrics



Class Range	Materials	Tensile Strength (KN/m) / (N/mm)		Weight (GSM)	Thickness (mm)	Widths (cm)	Lengths (Mtrs.)	Maximum Roll Weight (MT)
		Warp	Weft					
EE	Warp-HT PET Weft-HT PET	100 – 800	35 – 100	300 – 2500	0.3 – 3.0	80 – 240	150-1500	2.75*
NN	Warp-Nylon 6 Weft-Nylon 6	100 – 800	35 – 100	260 – 1800	0.4 – 2.0			
PP	Warp-Nylon 66 Weft-Nylon 66	100 – 800	35 – 100	260 – 1450	0.5 – 2.0			
EP	Warp-HT PET Weft-Nylon 66	100 – 1000	35 – 120	300 – 2500	0.4 – 3.0			
EN	Warp-HT PET Weft-Nylon 6	100 – 800	35 – 100	300 – 2500	0.5 – 3.0			
EEH	Warp-HT PET Weft-Hebr PET	100 – 920	35 – 140	350 – 2500	0.4 – 2.2			

HT PET = High Tenacity Polyester
 Hebr = High Elongation
 Treatments - RFL, Black, Brown, Special RFL, NBR etc.
 Selvedge type - Fringe/Tuck-in/Heat sealed

*Higher roll weights possible on demand.



Process Flow Chart of Textile Manufacturing



Straight Warp Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
315-1250	HT PET Nylon 66	Nylon 66	350 – 1400	10%-40%	1.4 – 7.0	1800 -3000	80 - 240	100 - 500
Tolerance			Min.	Min.		± 3%	-0/+2 cm	± 1%

Fabric



Good Impact Resistance, Flexibility, and Low Elongation

Application

Overland Conveyor Belts



Rip Check Breaker Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
Light + Heavy Fabrics	HT PET Nylon 66	HT PET Nylon 66	Customised	100 - 400	1.5 - 3.0	250 - 1000	80 - 240	150 - 650
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%



Superior Tear and Puncture Resistance

High Impact & Rip Protection Belts



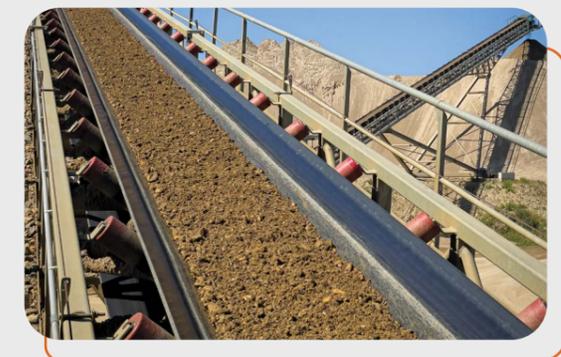
Steel Breaker Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
50-400	Dipper PET Nylon 66	Steel cord (Dia-0.9-1.5 mm)	Customised	50 - 400	1.0 - 3.0	300 - 2000	80 - 250	100 - 600
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%



High Strength & Load Capacity

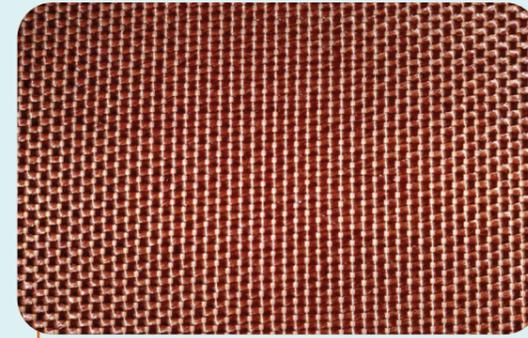
Steel Cord Belt



Monofilament Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
50-200	HT PET	Mono. PET (Dia 0.3-0.8mm)	Customised	100 - 300	0.6 - 1.5	300 - 1000	80 - 240	150 - 1200
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%

Fabric



High Lateral Stiffness with 0 Troughability

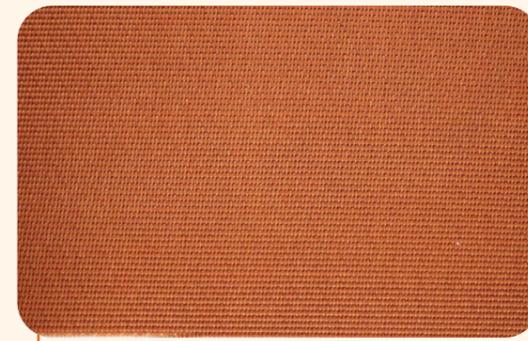
Application

Bucket Elevator Belt



Pipe Conveyor Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
Pipe Fabric	HT PET/ Nylon 66	HT PET/ Nylon 66	150 - 700	Min. 40+% of warp strength	0.8 - 2.5	400 - 1500	80 - 240	150 - 750
Pipe Breakers	HT PET/ Nylon 66	HT PET	Customised	100-700	0.8 - 2.5	600 - 2000	80 - 240	150 - 750
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%



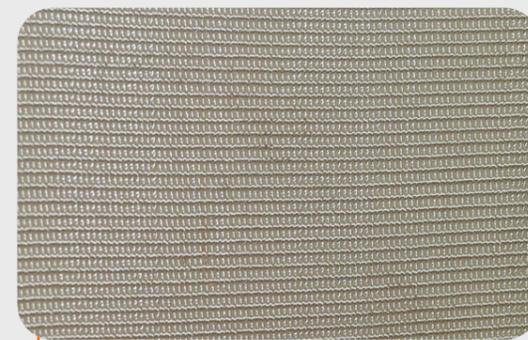
High Lateral Support & Stretchability

Pipe Conveyor/Tubular Belts



Impression Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
Light + Heavy Fabrics	HT PET	HT PET	Customised	Customised	0.5 - 6.0	220 - 3500	80 - 240	100 - 300
Tolerance			Min.	Min.	---	± 3%	-0/+2 cm	± 1%



Improved Traction Maintaining Steady Flow of Materials

Rough Top Belts



Solid-Woven Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
Type 2-Type 12	PET, Cotton	PET, Cotton	400-2500	30-40% of warp tensile	3.0 - 18	1500 - 10000	80 - 190	50 - 400
Tolerance			---	---	± 0.1	---	-0/+2 cm	± 1%

Maximum Roll Weight - 3.5 MT

Fabric



Inherent Flame Resistance and Moisture Absorption

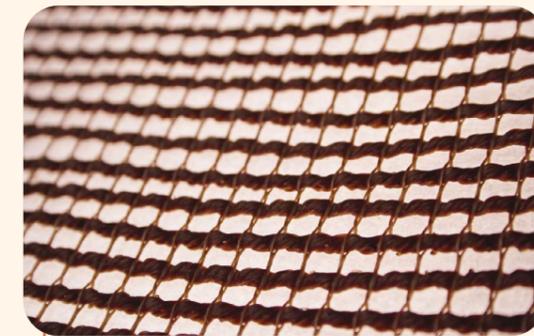
Application

Underground Coal Mining - PVC & PVG Belts



Leno Breaker Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
Light to Medium duty	HT PET Nylon 66	HT PET Nylon 66	20-50	20-50	0.8 - 1.5	160-400	80 - 210	150 - 1000
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%



Enhances Breathability and Stability

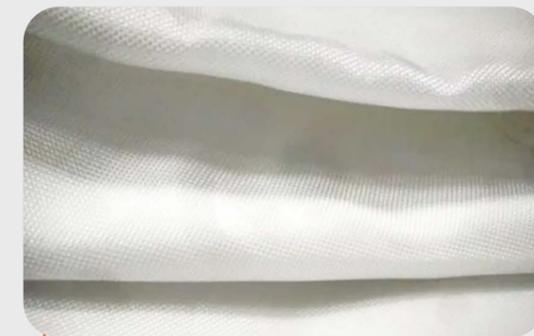
Air Bladder, Splicing Joints Inflatables



Liner Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m2	cm	m
Light to Medium duty	HT PET/ Polypropylene	HT PET/ Polypropylene	80-150	80-150	0.25 - 0.6	180-360	80 - 270	150 - 500
Release Liners	Nylon 66	Nylon 66						
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%

Tuck in selvedge



High Strength, Wear Resistance, and Moisture Resistance

Tyre Lining - Rubber Calendaring Process

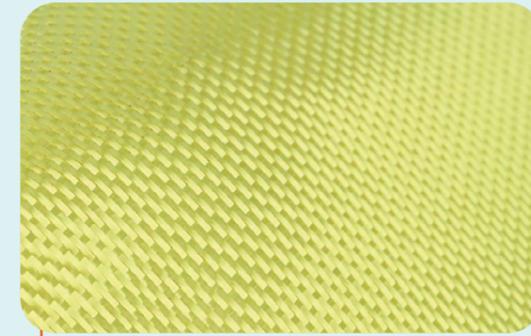


Aramid Fabrics

Specifications								
Style Class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m ²	cm	m
Greige & Primed	Meta Aramid	Meta Aramid	20-30	20-30	0.35-0.45	80-140	80-240	100-500
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%

Maximum Roll Weight - 3.5 MT

Fabric



High Temperature & Pressure Resistance

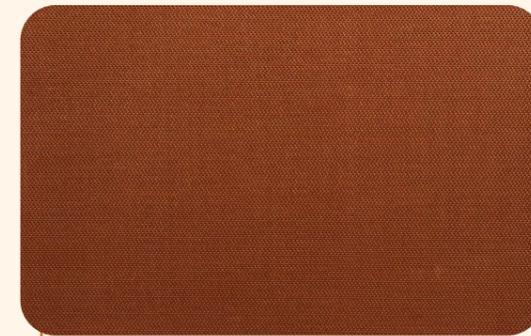
Application

Silicone Hose Reinforcement



Diaphragm Fabrics

Specifications								
Style class	Warp Material	Weft Material	Warp Tensile	Weft Tensile	Thickness	GSM	Fabric width range	Fabric length range
UOM ->	--	--	kN/m	kN/m	mm	g/m ²	cm	m
Light + Heavy Duty	Nylon 6/ Nylon 66	Nylon 6/ Nylon 66	50-100	50-100	0.5 - 0.8	250 - 350	80 - 200	150 - 1500
Tolerance			Min.	Min.	± 0.2	± 3%	-0/+2 cm	± 1%



High Strength, Heat Resistance, and Chemical Stability

Rubber Diaphragm Reinforcement



Notes:

We offer a diverse range of reinforcement fabrics, which can also be customised to meet specific requirements.

SOCIAL COMMITMENT



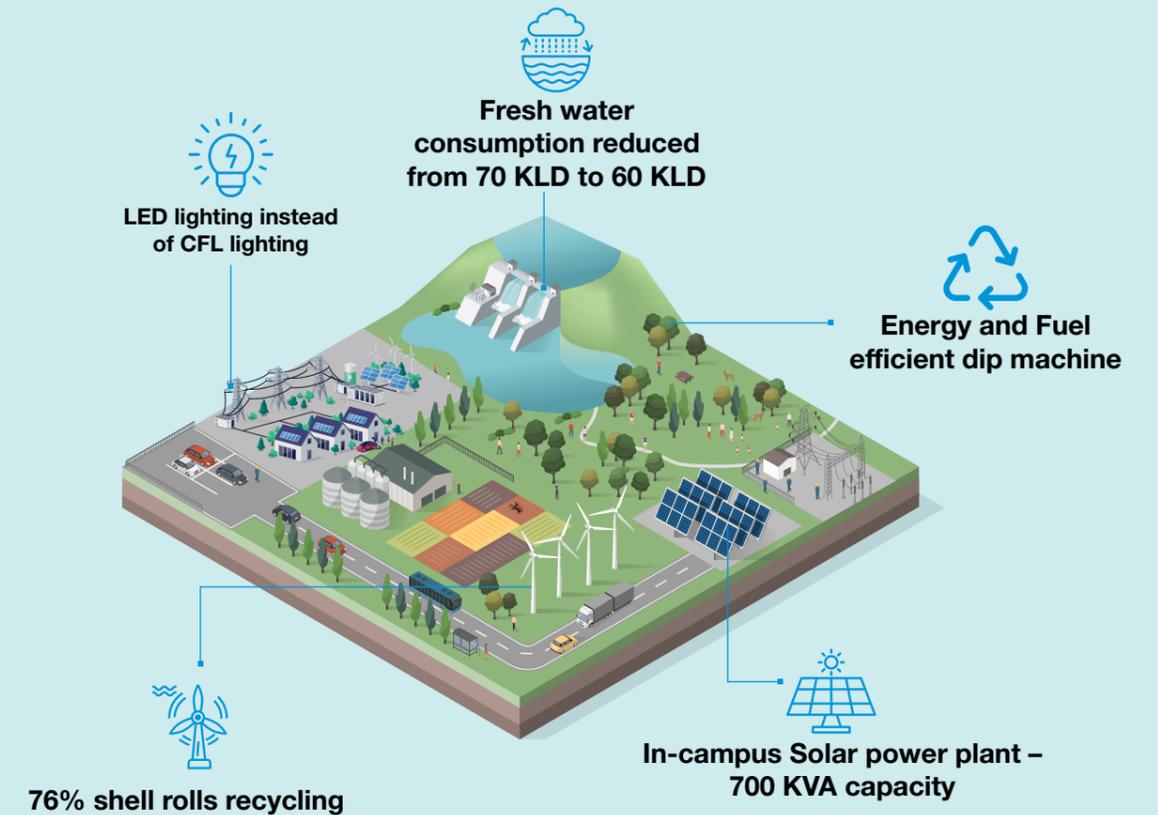
Social Commitment Education Programmes



Vocational Skills & Livelihood Programmes



OUR COMMITMENT TO THE ENVIRONMENT

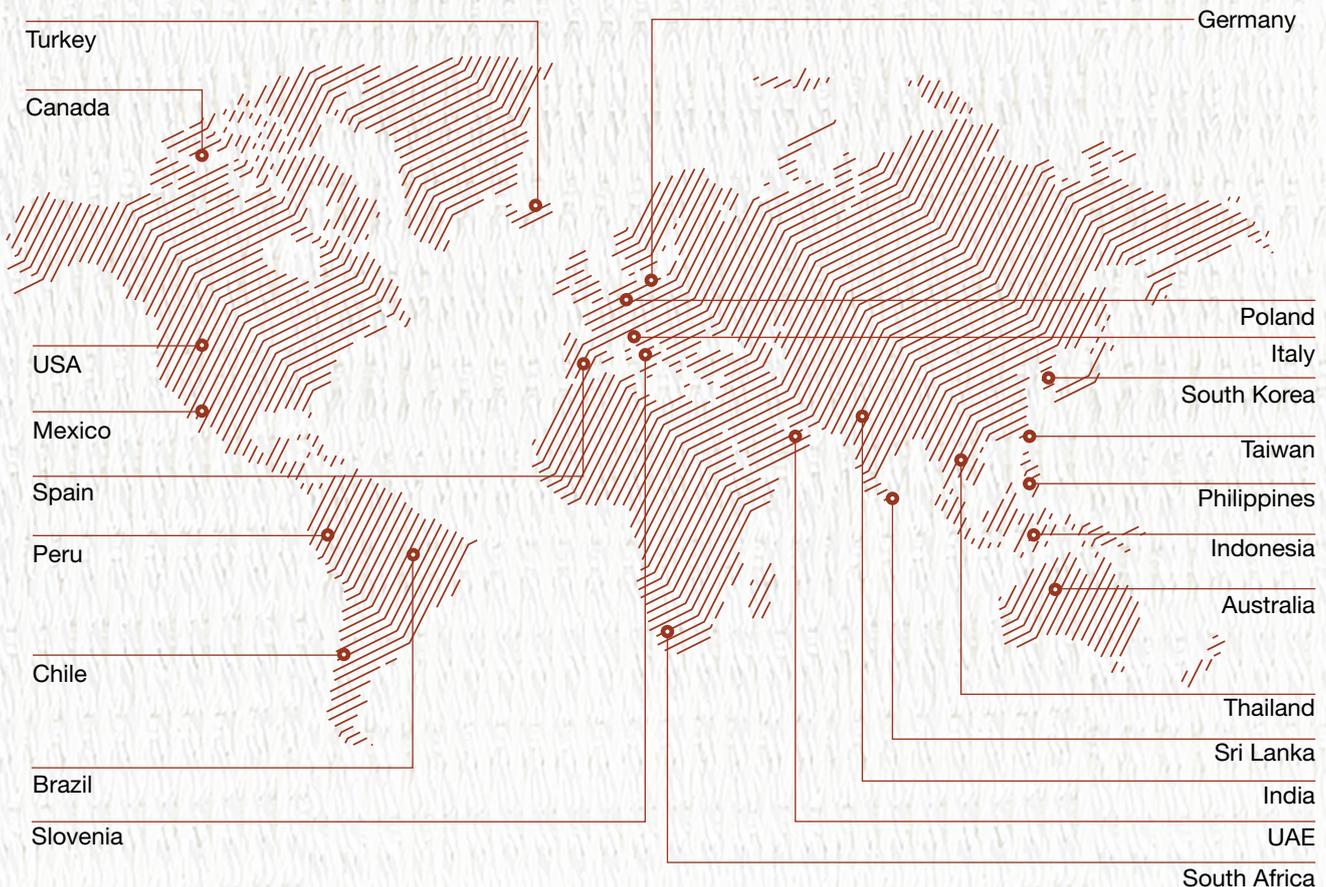


DEDICATED CENTRE FOR RESEARCH & NPD



SRF combines world-class facilities for polymerisation, spinning, twisting, and dipping with collaborative development efforts and a team of top-tier scientists and engineers to drive innovation in products and processes.

A LEADING SUPPLIER OF BELTING FABRICS ACROSS THE WORLD*



Map not to Scale

*Customer Locations



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