

# 鋼索簾布輸送帶

STF steelcord conveyor belts



**SWR**

三五橡膠廠股份有限公司 榮譽出品  
SAN WU RUBBER MFG. CO., LTD.

信賴的標誌



# SWR

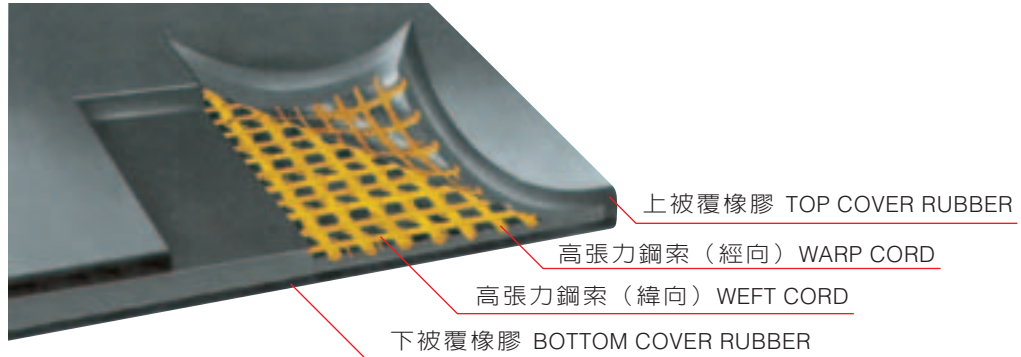
**三五牌**鋼索簾布輸送帶，是採用比利時BEKAERT公司開發成功的FLEXIMAT® Impact Metal Weft鋼索簾布製成，較傳統式的鋼索輸送帶更能發揮鋼索輸送帶的優點。傳統的鋼索輸送帶僅有單經向(Warp/Single)鋼索，由於沒有緯索，僅賴橡膠不足以耐撕裂切割，經常有割裂事故發生。

**三五牌**鋼索簾布輸送帶所使用的IW鋼索簾布，以化纖索為綁紗將經緯向的鋼索固定，採用直經織法，故IW鋼索簾布仍保持鋼索(Steel Cable)0.3~0.5%的低初期伸長率特性。輸送帶最大寬度：2000mm。

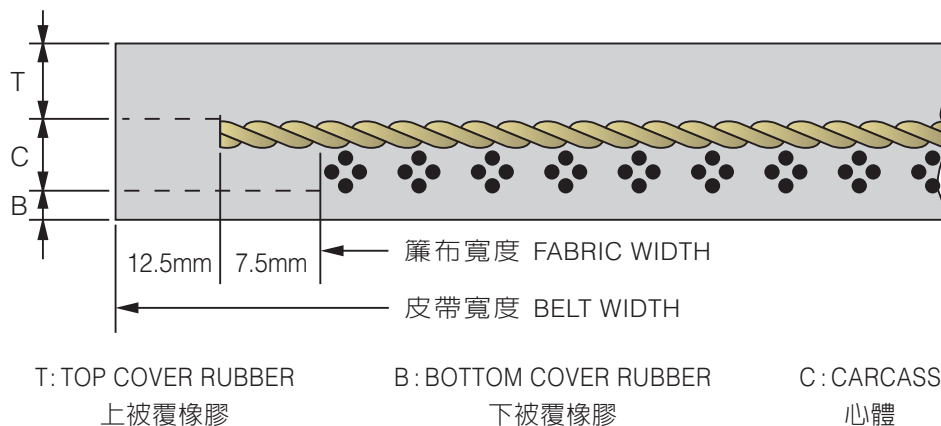
STF Steelcord conveyor belt is manufactured with Fleximat® Impact Metal Weft, which is a fabric consisting of brass coated steel warp and weft, both two are held together with RFL treated nylon yarns which are warping binder.

The outstanding merits of SAN WU'S STF Conveyor Belt are, longitudinal cutting resistance, high transversal and longitudinal flexibility, low elongation and single ply construction. Belt Max, width: 2000mm.

## 鋼索簾布輸送帶 STF CONVEYOR BELT



## 鋼索簾布輸送帶基本構造 Construction OF STF CONVEYOR BELT



## 鋼索特性 Description

Fleximat® metal weft 是一種由鍍上黃銅之經緯向鋼索編織成品

Fleximat® metal weft is a fabric consistion of brass coated steel cord warp and weft.

經索（E索）為通過以下測試之特殊鋼索

圖1. 適應壓縮情形。

圖2. 適度的伸長性。

圖3. 良好的橡膠密著性。

緯索具高的斷點延伸，能增進皮帶之撕裂強度及動力吸收能力，扮演著抵抗割裂，撕裂的地位。

Special steel cords (E-cords) are used giving:

- adapted compression behaviour(fig. 1);
- favourable elongation (fig. 2);
- excellent rubber penetration (fig. 3).

The weft cords have high breaking elongation which improves the tear strength and energy absorbing capability of the belts.

The weft steel cords act as a barrier to ripping and tearing forces.

fig. 1

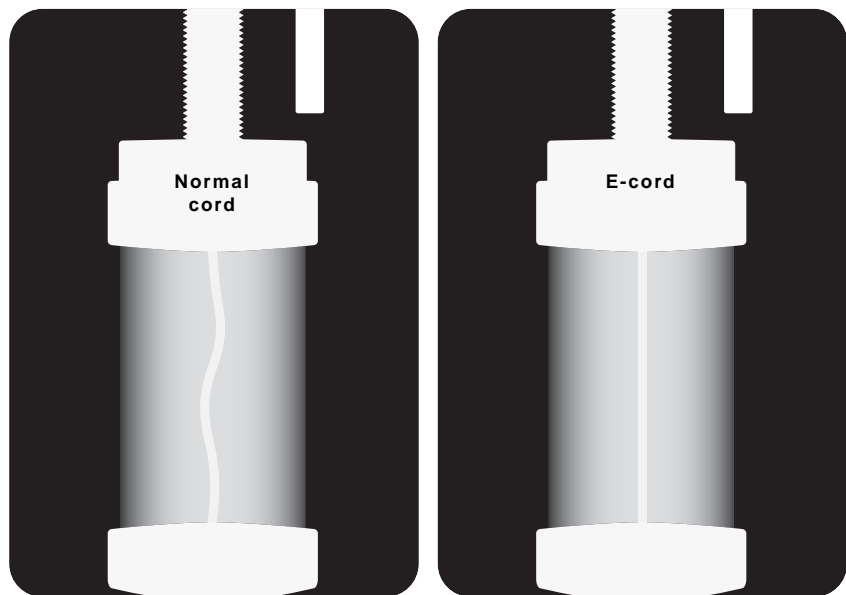


fig. 2

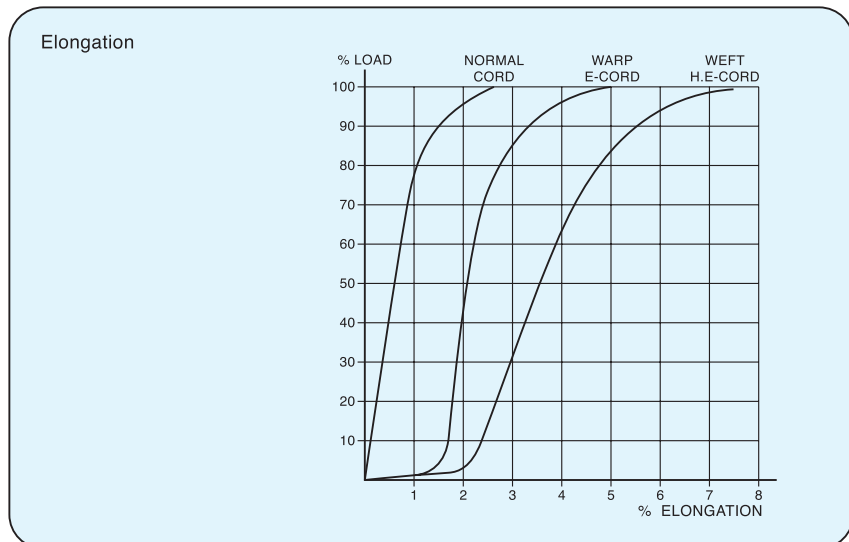
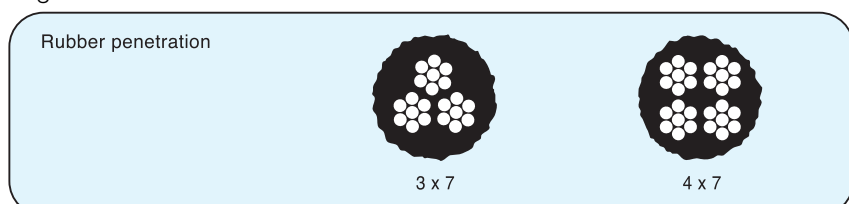
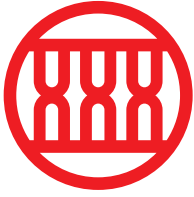


fig. 3

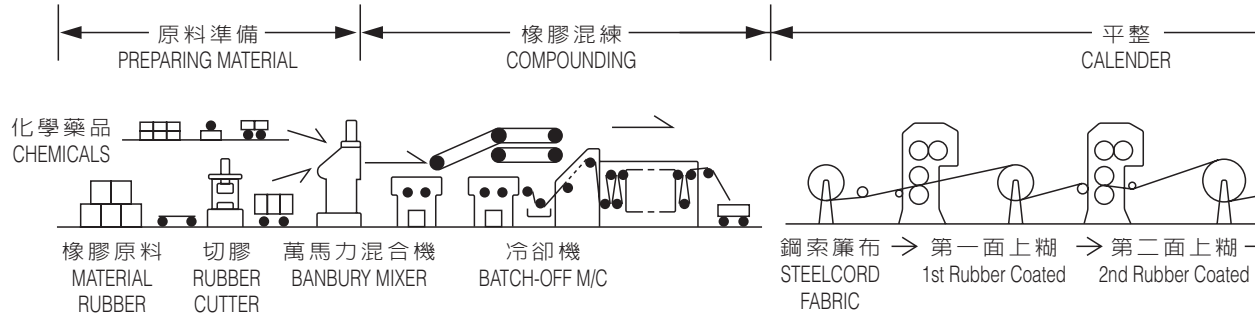




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## 三五牌鋼索簾布輸送帶製造流程

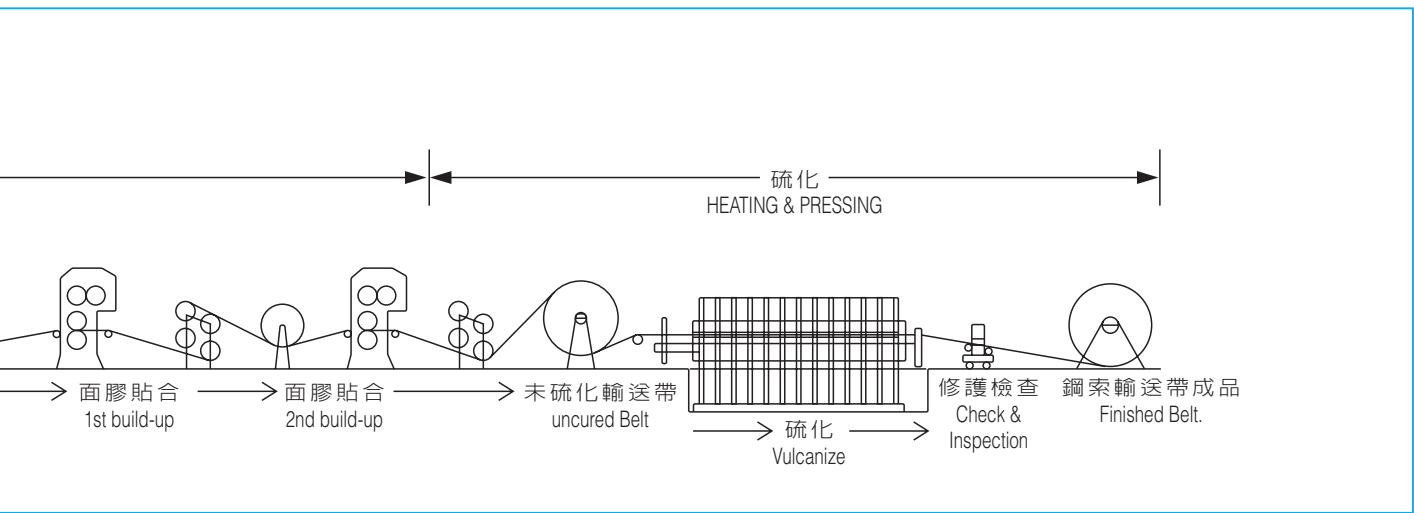
### STF CONVEYOR BELT MANUFACTURING PROCESS



## 心體強度

### STF Carcass Strength (IW Type)

Belt range 鋼索輸送帶型別	STF (IW)	350	500	630	800	1000	1250	1400	1600	
Strength 抗拉強度	Warp N/mm 經向(Kgf/cm)	350 (360)	500 (510)	630 (640)	800 (820)	1000 (1020)	1250 (1275)	1400 (1427)	1600 (1630)	
	Weft N/mm 緯向(Kgf/cm)	90 (91)			125 (127)		175 (178)			
Fleximat 鋼索簾布	Mass 重量Kg/m <sup>2</sup>	1.85	2.45	2.95	4.15	5.00	6.35	7.05	7.90	
	Thickness 厚度mm	3.2			4.5		6.0			
WARP CORD 經向鋼索	DIAMETER 直徑mm	2.0			2.85		3.9			
	BREAK. LOAD 斷點強度N	3075			5600		9600			
	BREAK ELONG 斷點延伸率%	5								
	PITCH 間距mm	8.33	5.81	4.63	6.67	5.38	7.04	6.25	5.50	
	DENSITY 密度cords/m	120	172	216	150	186	142	160	182	
WEFT CORD 緯向鋼索	DIAMETER 直徑mm	1.52			2.10		2.40			
	BREAK LOAD 斷點強度N	1720			2900		3775			
	BREAK ELONG 斷點延伸率%	7.5								
	PITCH 間距mm	17.5			20					
	DENSITY 密度cords/m	57			50					



## 心體強度

### STF Carcass Strength(IWR Type)

Belt range 鋼索傳送帶型別	STF (IWR)	630R	800R	1000R	1250R	1400R	1600R	1800R	2000R
Strength 抗拉強度	Warp N/mm 經向(Kgf/cm)	630 (640)	800 (820)	1000 (1020)	1250 (1275)	1400 (1427)	1600 (1630)	1800 (1836)	2000 (2040)
	Weft N/mm 緯向(Kgf/cm)	200 (203)							
Fleximat 鋼索帆布	Mass 重量Kg/m <sup>2</sup>	3.45	4.35	5.20	6.40	6.90	7.90	9.10	9.80
	Thickness 厚度mm	5.0	5.6		6.4		7.2		
WARP CORD 經向鋼索	DIAMETER 直徑mm	3.0	3.6		4.4		5.2		
	BREAK. LOAD 斷點強度N	9700	13500		19800		26700		
	BREAK ELONG 斷點延伸率%	2.5							
	PITCH 間距mm	14	15	12	14	13	15	13	12
	DENSITY 密度cords/m	71.4	66.7	83.3	71.4	76.9	66.7	76.9	83.3
WEFT CORD 緯向鋼索	DIAMETER 直徑mm	2.10							
	BREAK LOAD 斷點強度N	2900							
	BREAK ELONG 斷點延伸率%	7.5							
	PITCH 間距mm	14							
	DENSITY 密度cords/m	71.4							

如有特殊規格請洽本公司

Specific specifications subject to customer's required.

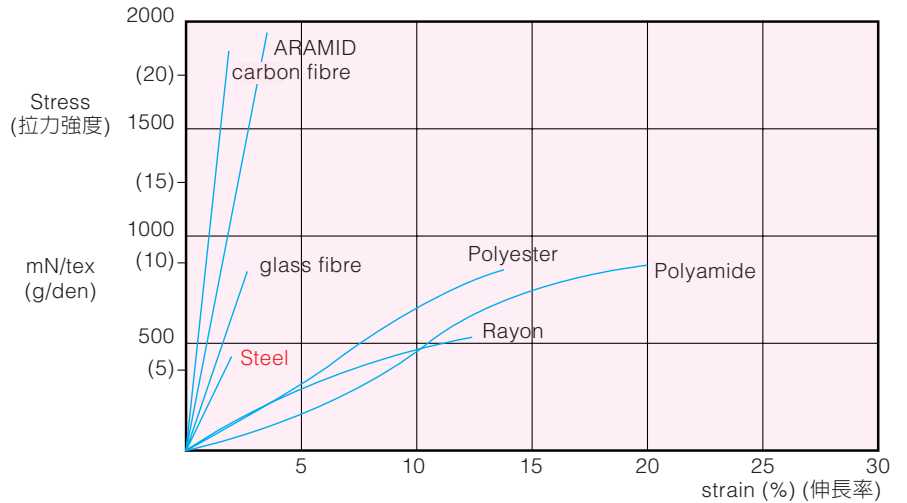


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## 輸送帶各種心體材料初期伸長率比較表 CARCASS-ELONGATION

心體材料種類 Type	IW IWR STEEL	AR ARAMID	NN NYLON	EP.TN POLYESTER	COTTON RAYON	VN VINYLON
初期伸長率% Initial Elongation	0.3~0.5	0.5~1	2.5~3.5	2.5~3.5	3~4	3~3.5

### 應力－伸長率曲線圖： Stress-Strain Chart



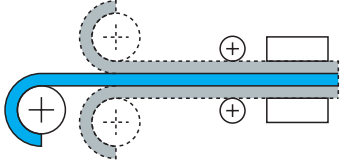
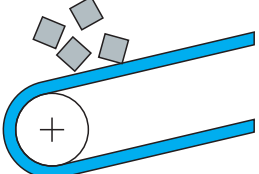


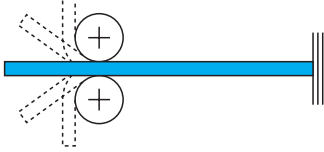
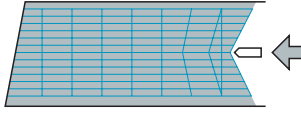
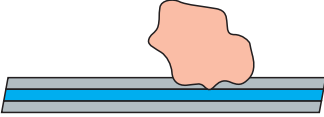
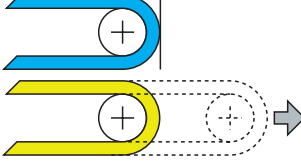
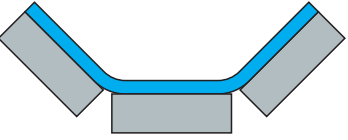
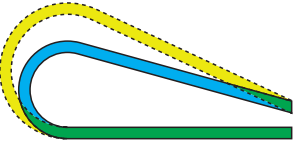

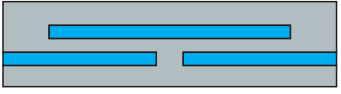
### 被覆橡膠之性能 Characteristics of cover rubber

Test item 試驗項目		Performance of cover rubber 被覆橡膠之性能	
		A	S
Tensile test 抗拉試驗	Tensile strength kgf/cm <sup>2</sup> (MPa) 抗拉強度	140 (13.73) min	180 (17.65) min
	Elongation (%) 伸長率	400 min	450 min
Aging test 老化試驗	Variation percentage of tensile strength (%) 抗拉強度之變化率	±25 以內	
	Variation percentage of elongation (%) 伸長率之變化		
Abrasion test 磨耗試驗	Abrasion volume 磨耗量 (mm <sup>3</sup> )	150 max.	200 max.
Ozone deterioration test 耐臭氧試驗		No generation of cracks 無龜裂	

### 適用最小輪經 Recommended min.pulley diameters

型別 TYPE	驅動輪、頭輪 Drive pulley. Head pulley	配重輪、尾輪 Take-up pulley. Tail pulley	邊側輪 Snub pulley
IW350 IW500 IW630	355	315	250
IW800 IW1000	500	400	315
IW1250 IW1600	630	500	400
IW630R	600	500	350
IW800R IW1000R	800	650	500
IW800R IW1400R	950	750	550
IW1600R IW1800R IW2000R	1050	850	650

## 鋼索簾布輸送帶之特點 Characteristics of STF CONVEYOR BELT

 <p>心體單層結構 single ply construction</p>	 <p>耐衝擊性佳 good impact resistance</p>
 <p>鋼索與橡膠結合性優 excellent chemical bond between steel cord and rubber</p>	 <p>避免層間脫離 ply separation avoided</p>
 <p>鋼索強度穩度性優 strength stability and excellent fatigue properties of steel cord</p>	 <p>耐撕裂性增強 strongly increased ripping and tear resistance</p>
 <p>耐熱物“燒透” suited for hot material transport no "Burn Through" trouble</p>	 <p>張緊裝置費用低 low cost (smaller) take-up units</p>
 <p>凹槽性良好 high troughability high transversal flexibility</p>	 <p>曲撓性佳，可使用較小帶輪 high longitudinal flexibility small pulleys permitted</p>
 <p>張力固定，運轉時不幌動 constant belt tension if screw tensioning is applied</p>	 <p>接合簡便，修補容易 simple and effective splicing easy belt repairing</p>

· 本型錄數據資料謹供參考，不具保證責任。

· All the information contained in this catalogue is based on reasonable research, but does not guarantee any result.



總公司全貌  
FACTORY

ISO-14001/SGS  
ISO-9001:2000/CNS 12681  
Certificate NO:5XWY008-03



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