

# DUNLOP FERROFLEX

CONVEYOR BELTS

AVAILABLE IN A WIDE RANGE OF  
PREMIUM QUALITY GRADES

## STEEL FABRIC REINFORCED BELTING

- Tensile strengths available from 500 N/mm up to 2000 N/mm
- Wide range of widths available, from 500 up to 2200mm
- Available in a range of cover compounds from -60°C up to +400°C including fire resistant, oil, extreme cold and abrasion resistant
- Low elongation 0.25% at 10% of the normal tensile strength
- High impact and tear resistance due to dense steel cord carcass
- Small pulley diameters
- Super-strong carcass ideal for elevator belting

Dunlop Ferrofex steel fabric reinforced belting is specifically designed for demanding service conditions such as carrying heavy bulk materials, particularly where long distances and/or high-impact, ripping and tearing is involved.

Ferrofex has a tension layer composed of longitudinal steel cords through which the power is transmitted. The transverse steel cords reinforce the belt and protect against impact and tears. This well-proven carcass construction has particularly good 'low elongation' characteristics.

### CARCASS CONSTRUCTION

There are two Ferrofex constructions available. These are referred to as 'FIW' and 'FSW'. The FIW carcass has a single transversal layer of steel cords on top of the longitudinal steel cords. The FSW carcass has two transversal layers of steel cords situated at both sides of the longitudinal steel cords. Both constructions are available in many Dunlop cover qualities.

### APPLICATION AREAS

Ferrofex provides top class reliability and durability in a wide cross-section of industries including cement, quarries, wood, paper and pulp, recycling, steel and transshipment.

The FSW reinforced belt can be supplied with cable free zones to make the installation of buckets and fasteners easier and to create a dynamically stronger belt, which combined with its low elongation characteristics and high heat resistant Delatete rubber covers mean that it is ideally suited as an elevator belt for conveying hot materials.



STEEL REINFORCED FOR HIGH RESISTANCE TO  
**IMPACT, RIPPING & TEARING**



EXCELLENT 'LONG DISTANCE' HANDLING CHARACTERISTICS  
**LOW ELONGATION**



IDEALLY SUITED FOR  
**USE AS ELEVATOR BELTING**

## UNRIVALLED TECHNICAL SUPPORT AND GUIDANCE

When you buy from Dunlop you get more than just quality conveyor belts because we have one of the largest, most experienced and highly trained teams of conveyor belt specialists and application engineers in the industry.

Dunlop provides an unrivalled level of customer service – visiting our customers on-site, providing advice, guidance and practical support including:

- ▶ Belt calculation services
- ▶ Technical training (on-site and Dunlop based)
- ▶ Splice training
- ▶ Trouble shooting and problem solving
- ▶ In-house research, testing and development
- ▶ After-sales support



## TECHNICAL INFORMATION

Belt type	Carcass thickness [mm]	Carcass weight [kg/m <sup>2</sup> ]	Pulley diameters *			Min. width ** [mm]	Max. belt width [mm] for satisfactory load support with material density of t/m <sup>3</sup> : **			
			A [mm]	B [mm]	C [mm]		< 0.75	0.75 - 1.5	1.5 - 2.5	2.5 - 3.2
F 500 IW	3.2	5.8	500	400	315	500	1600	1400	1200	1000
F 500 SW	4.7	7.7	500	400	315	800	2200	2000	1800	1600
F 630 IW	3.2	6.2	500	400	315	500	1600	1400	1200	1000
F 630 SW	4.7	8.2	500	400	315	800	2200	2000	1800	1600
F 800 IW	4.5	8.8	630	500	400	650	2200	2000	2000	1800
F 800 SW	5.4	9.8	630	500	400	800	2200	2200	1800	1600
F 1000 IW	4.5	9.5	630	500	400	650	2200	2000	1800	1600
F 1000 SW	5.4	10.6	630	500	400	800	2200	2200	2000	1800
F 1250 IW	6.0	12.5	800	630	400	800	2200	2200	2200	2200
F 1250 SW	7.1	13.7	800	630	400	1000	2200	2200	2200	2200
F 1400 IW	6.0	13.1	800	630	400	800	2200	2200	2200	2200
F 1400 SW	7.1	14.3	800	630	400	1000	2200	2200	2200	2200
F 1600 IW	6.0	13.8	800	630	400	800	2200	2200	2200	2200
F 1600 SW	7.1	15.1	800	630	400	1000	2200	2200	2200	2200
F 2000 SW	7.1	16.3	800	630	400	1000	2200	2200	2200	2200

\* Diameter for belt-loads from 60% up to 100%. For lower loads a smaller diameter can also be suitable.

\*\* The load support of a belt is a factor of the belt width, belt strength and bulk material density. The table indicates the limits for correct load support, based on three idlers of the same length set at 30°.

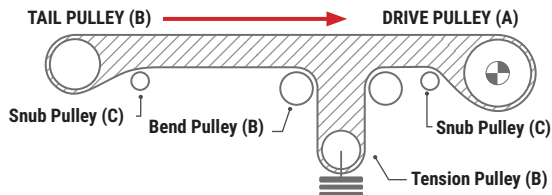
### 1 TO DETERMINE THE TOTAL BELT THICKNESS

Add the sum of the covers to the carcass thickness.

### 2 TO DETERMINE THE BELT WEIGHT PER M<sup>2</sup>

(EXCLUDING FIRE RESISTANT BELTS FOR WHICH OTHER WEIGHTS APPLY)

Multiply the sum of the covers by 1.15 and add the result to the carcass weight.



## A WIDE RANGE OF COVER QUALITIES

ALL DUNLOP COVER QUALITIES ARE ANTI-STATIC ACCORDING TO EN 20284

Dunlop Cover Quality		DIN quality	EN/ISO quality	Permissible temp. °C *			Base polymer	Technical Features Application Area
				Min. Ambient	Cont. Material	Peak Material		
Abrasion resistant	RA	Y		-30	80	100	SBR	Abrasion resistant for more severe service conditions.
	RE	X	H	-40	80	90	NR	Excellent resistance to cuts, impact, abrasion and gouging resulting from large and heavy lump sizes.
	RS	W	D	-30	80	90	NR/SBR	Impact and extra wear resistance for conveying highly abrasive materials of mixed lump sizes.
Heat resistant	Betahete	T	T1	-20	160	180	SBR	Heat and wear resistant for high temperature materials.
	Deltahete	T	T3	-20	200	400	EPM	Superior heat resistant for heavy duty service conditions, up to 400 °C for short time intervals.
Oil resistant	ROS	G		-20	80	120	NBR	Oil and fat resistant for products containing mineral oils.
Fire resistant	BV	K/S**	2A/2B	-20	80	90	SBR	Highly fire resistant according to EN 12882 and EN ISO 340.

\* For elevator belts other values apply. For low ambient temperatures please ask for information regarding our **Coldstar** range.

\*\* K - fire retardant with covers.

S - fire retardant with and without covers.

Other cover grade qualities for special applications are available upon request.

All information and recommendations in this bulletin have been supplied to the best of our knowledge, as accurately as possible and updated to reflect the most recent technological developments. We cannot accept any responsibility for recommendations based solely on this document.