

STEEL CORD CONVEYOR BELTS

Steel cord conveyor belt for general use

Steel cord conveyor belts for general use convey loose and lump materials on heavy-duty conveyors over long distances and under difficult conditions. These are used in all fields conveying line, such as mine industry, metallurgy, electricity, wharf and building materials, for piece materials, drop materials and powder materials, in the temperature range (-30 °C ... +60 °C).

The carcass consists of high-strength steel cords placed in one plane. The rubber covers -according to DIN 22131 (X, W, Y grade) or to the request of the customer.

Characteris	stic	Resistance class								
		ST 800	ST	ST	ST	ST	ST	ST	ST	
			1000	1250	1600	2000	2500	3150	4000	
Breaking for	orce of	800	1000	1250	1600	2000	2500	3150	4000	
conveyor b	elt, N/mm									
width, min.										
Cord diame	eter, mm,			4.7						
max.				± 0.2						
					. –					
Cord space	ng, mm	15 ± 1.5	12 ±	$14 \pm$	15 ±	12 ±	15 ±	$15 \pm$	15	
			1.5	1.5	1.5	1.5	1.5	1.5	0.5	
Inickness		4	4	4	4	4	5	5.5	6.5	
Cover, mm	, 	11 10	4.4	4.4	10	00	00.07	00.00	0.4	
Belt	thickness	14 – 16	14 -	14 -	18 -	20 -	20-27	22 -30	24 -	
	doviation	. 1.00/	10	20	21	21	. 100/	. 1 00/	30	
	from	+10%	+10%	+10%	+10%	+10%	+10%	+10%	+10%	
	thickness	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	
Length m	UNCKIESS	may250	200	200	160	160	140	140	1/0	
Edges rubh	er width	max200	200	200	15	100	140	140	140	
mm, min										
Breaking fo	orce of	13.2	13.2	19.2	26.4	26.4	41.2	52.0	66.0	
cord, kN, m	nin	_	-	-	-	-				
Adhesion r	ubber/cord,	70	70	85	85	85	100	110	120	
N/mm, min										
Width, mm		Number of cords								
width	deviation									
	from									
	width									
1000	±10	65	81	69	64	81	64	64	64	
1200	±10	78	97	84	77	97	77	77	77	
1400	±12	-	114	98	90	114	90	90	90	
1600	±12	-	131	112	104	131	104	104	104	
1800	±14	-	147	127	117	147	117	117	117	
Cord corros	sion	Zinc or Brass								
protection										

Products characteristic

*) Thickness of rubber covers is specified to order of customer.
**) Belt thickness is given from addition of cord diameter and thickness of rubber covers.



Cover r	Cover rubber grade								
Cover g	grade		Tensile	Elongatio	Abrasio	Hardnes	Densit	Use	
Grou p	Тур е	norm	strength, min (daN/cm	n at break, min (%)	n loss, max, (mm ³)	s (°Sh A)	y (g/cm ³)		
			(daiv/ciii 2)	11111.,(70)	(11111)				
1	Х	DIN 22131	250	450	120	-	-	These cover rubber grades	
	W	DIN 22131	180	400	90	-	-	have characteristic s to provide a very high abrasion and cut-and- gouge resistance as well as weather resistance.	
2	Y	DIN 22131	200	400	150	-	1.2 ± 0.02	The cover rubber grades are widely used for general conveyor belts and superior resistance to abrasion, weather, and cutting	
3	068	DIN 22131	150	350	200	60 ± 5	-	The cover rubber grades	
4	438	DIN 22131	150	350	150	67 ± 5	-	are widely used for general conveyor belts.	



Product symbolization By DIN22131 – 88: for example:

RO ST 2000 * 1400 10 / 5 Y 002						
Producer identification	RO					
Steel cord	ST					
Tensile strength	2000					
Width	1400					
Top cover thickness	10					
Bottom cover thickness	5					
Rubber cover grade	Y					
Product series	002					

FLAME RESISTANT STEEL CORD CONVEYOR BELTS

Flame resistant steel cord conveyor belts placed in one plane. The rubber covers -corresponding to DIN 22 131 (K grade) or to the request of the customer-meet all the requirements to meet the fire protection standards with respect to DIN 22 103; they also have fire improved resistance and anti-static properties are specially designed to convey loose and bulk materials in explosion-hazardous locations; these are used for aboveground mining applications that require fire resistance, in the temperature range (-30 °C ... +60 °C).

The carcass consists of high-strength steel cords (DIN 22 104).

Characteristic		Resistance class								
		ST 800	ST	ST	ST	ST	ST	ST	ST	
			1000	1250	1600	2000	2500	3150	4000	
Breaking f	orce of	800	1000	1250	1600	2000	2500	3150	4000	
conveyor b	oelt, N/mm									
width, min										
Cord diam	eter, mm,			4.7 ±						
max.				0.2						
Cord spacing, mm		15 ±	12 ±	14 ±	15 ±	12 ±	15 ±	15 ±	15	
_	_	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
Thickness	of rubber	4	4	4	4	4	5	5.5	6.5	
cover, mm	-)									
Belt	thicknes	143–	14 – 16	14 – 20	18 –	20 –	20- 27	22 -	24 -	
thicknes	S	16			27	27		30	30	
S	deviation	+10%	+10%	+10%	+10%	+10%	+10%	+10	+10	
	from	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	%	%	
	thicknes							-0.5	-0.5	
	S									
Length, m		max25	max25	max20	min16	min16	min14	140	140	
		0	0	0	0	0	0			
Edges rubber width,					15					
Breaking f cord, kN, r	orce of nin	13.2	13.2	19.2	26.4	26.4	41.2	52.0	66.0	

Product characteristics



Romania, Tg-Jiu, Gorj, phone/fax: 004-0353-402061, mobile: 004-0720-002392 Email: <u>office@rubberproducts.ro</u> WEB: <u>www.rubberproducts.ro</u>

Adhesion		70	70	85	85	85	100	110	120
rubber/cor	d, N/mm,								
min									
Width, mm	า	Number of cords							
width	deviation								
	from								
	width								
800	±8	52	64	55	50	64	50	50	50
1000	±10	65	81	69	64	81	64	64	64
1200	±10	78	97	84	77	97	77	77	77
1400	±12	-	114	98	90	114	90	90	90
1600	±12	-	131	112	104	131	104	104	104
1800	±14	-	147	127	117	147	117	117	117
Cord corrosion		Zinc or Brass							
protection									

*) Thickness of rubber covers is specified to order of customer.
**) Belt thickness is given from addition of cord diameter and thickness of rubber covers

Cover rubber grade

Cover grade		Tensile	Elongation	Abrasion	Surfaces	Flame resistant		
group	type	norm	strength, min (daN/cm2)	at break, min.,(%)	loss, max, (mm³)	electrical resistant (DIN22104) max,	(DIN22103)	
1	К	DIN 22131	200	400	200		-flame persistence(after	
2	356	DIN 22131	150	350	200	3*10 ⁸	removing the burner) must be under45 s for each group of six test pieces and for everyone 15 s maximum -the flame must not reappear after an air current application	