

transtex conveyor belting

PVC 350 & PVC 450 Elevator Belting – Now Available







- ► Resists stretching & shrinking
- ► Excellent bolt holding strength
- ► Interwoven polyester carcass for added strength and fastener holding
- ► Resistant to mildew and moisture
- ► Meets OSHA Specifications for surface electrical resistance of 300 megohms or less
- ► Meets MSHA Standards for flame resistance
- ► PVC 450 ORG (Oil Resistant Grain)
- ▶ PVC 350 also available in ORG

For more information contact your Account Manager or Territory Sales Manager

Transtex – lightweight rubber & pvc

Forbo Movement Systems Transtex Belting

10125 South Tryon Street Charlotte, NC 28273-6509 Phone: 704-334-5353 Fax: 704-334-7126 www.forbo-transtex.com







transtex

Elevator Belt Tension Sheet

ELEVATOR
DESIGNATION NO.

								DATE		
COMPANY										
ADDRESS										
DATA SUBMITTED	BY						Title _			
Total Belt Length							(in.) C to C P	ulleys		(ft.)
Rated Elevator Capa	city			(BPH) (TPH)	Material Handled		Wt. Per Cu. In. ¹			(lbs.)
BUCKETS:										
Style and Manufactu	ırer						Size		Projection	(in.)
									to C) Ascending Side	
							Trend to the second		of Material in Bucket	
			The second		- 37			There industries Rec ipion	eter	
									ate Weight²	
9/					Belt			5.05	=	222 2
PICK UP IN BOOT: For UP Loaded Leg For DOWN Loaded L For UP and DOWN L	.eg		e for di - - -	U	action) ise 10% of Total Buck ise 20% of Total Buck ise 30% of Total Buck	et Load et Load	Veight P.I.W. x Beh	,		
SUSPENDED WEIG	HT: (Asc	endin	g Side)				1. Center to C	LENGTH CALC	ULATIONS: *	
Empty Buckets:	(No.)	x _	(Wt.)	_lbs	lbs.		2. Center to C	AND THE PARTY OF T	-	
Load in Buckets:	OMIZSAN	x _	(Wt.)	lbs	lbs.		3. ½ Head Pu 4. ½ Boot Pul		,1	
Belt C to C	(No.)	x _	(Wt.)	_lbs	Ibs.		5. Belt Splice 3	The second secon		
Pickup in Boot	(Ft.) (% Buck			_lbs	lbs.		Sub-Total 6. Plus Contir (1% of Sub	ngency Factor o-Total)		
	Floating	g Take	up Weig	ght ^{2**} -	lbs.		55	TOTAL		
THEREFORE:	Maximum Tension – lbs.				* Round off Fractions to nearest whole Number					
The workload (t) is c	alculated	as follo	ows:							
maximum tension belt width					lbs. per inch of belt w	vidth				
The proper Belt per	the above	inforr	nation i	s: Forb	o Transtex					

Forbo Movement Systems Transtex Belting 10125 South Tryon Street Charlotte, NC 28273 - 6509 Toll Free 1-800-922-1735 E-mail: transtex.us@forbo.com www.forbo-transtex.com

¹ See Table 1 Other Side ² See Table 2 Other Side

TABLE #1 **BULK MATERIAL WEIGHT**

	Lbs. Cu. ln.	Lbs. Cu. Ft.
Alfalfa Meal	.013	22
Alfalfa Pellets	.025	43
Alumina	.038	65
Baking Soda	.032	55
Barley, Whole	.028	48
Bauxite	.052	90
Beans, Castor	.021	37
Borax	.041	70
Buckwheat	.024	42
Calcium Carbonate	.058	100
Cashew Nuts	.021	37
Caustic Soda	.051	88
Cement, Portland	.054	94
Clay, Brick	.069	120
Clover Seed	.028	48
Coal, Bituminous	.032	55
Cocoa Beans	.023	40
Cocoanut, Shredded	.013	22
Coffee, Roasted Bean	.015	26
Copper Ore	.087	150
Corn, Shelled	.026	45
Cottonseed Cake	.026	45
Cottonseed Meal	.023	40
Cullet, Glass	.069	120
Distiller's Grain, Wet	.035	60
Earth, Wet	.064	110
Flaxseed	.026	45
Flour, Wheat	.023	40
	.029	50
Garbage, Household		
Gravel	.058	100
Gypsum	.046	80
Hominy, Dry	.021	37
Hops, Dry Iron Ore	.020	35
	.116	200
Limestone, Crushed	.052	90
Magnesium Chloride	.019	33
Malt, Dry	.017	30
Mica, Pulverized	.009	15
Milo	.026	45
Oats	.015	26
Oyster Shells, Whole	.046	80
Peanuts, Shelled	.026	45
Peas, Dried	.029	50
Phosphate Acid Fertilizer	.035	60
Rice, Hulled	.028	49
Rye	.028	48
Safflower, Meal	.029	50
Salt, Dry	.046	80
Sand, Dry	.075	130
Sand, Dry Silica	.058	100
Sludge, Sewage	.029	50
Soda Ash, Heavy	.038	65
Soy Bean Meal	.023	40
Soy Beans, Whole	.029	50
Sugar, Raw	.038	65
Sulphur, Lumpy	.050	85
Taconite, Pellets	.075	130
Vermiculite, Ore	.046	80
Wheat	.028	48
Zinc Ore, Crushed	.093	160

TABLE #2 **PULLEY SPECIFICATIONS**

Diameter (Inches)	Circumference (Feet)	1/2* Circumference (Feet)	Floating** Take-Up Factor (lbs. per inch of Pulley Face Width
8	2.07	2	5
9	2.35	2	5
10	2.64	2	7
11	2.89	2	7
12	3.14	2	7
13	3.39	2	8
14	3.64	2	8
15	3.92	2	9
16	4.18	3	9
18	4.71	3	9
20	5.21	3	10
21	5.50	3	10
22	5.75	3	12
24	6.28	4	12
28	7.32	4	15
30	7.85	4	18
32	8.35	5	20
36	9.42	5	24
40	10.46	6	29
42	10.99	6	31
48	12.57	7	40
54	14.14	8	47
60	15.71	8	53
66	17.28	9	
72	18.85	10	
84	21.99	11	
96	25.13	13	_

^{*} Rounded off to nearest whole number.

TABLE #3 **BELT - BUCKET JOINT SPECIFICATIONS***

BUTT-RIDER



	Minimum Buckets
	Per Row on Each
Pulley Centers	End of Main Belt

0 - 99' 100' - 149' 150' - 199' 200' - 249' 250' & over

6

Per Row in Splice Area 4 5

6

Minimum Buckets

* For Handling Grain or Similar Lightweight Materials

Note: For Pulley Centers above 300° or Special Applications contact Forbo Transtex Representative or Charlotte Offices.

^{**} Floating Take-Up Factor Includes Pulley Weight, Structural Assembly and Steel Weights.

TO CALCULATE: Multiply Take-Up Factor Listed for given Boot Pulley diameter x total inches of Boot Pulley Face width.



TRANSTEX PRODU	CT SPECIFICATIONS
Product Specification:	PVC 450 ORG CxC Black
Transtex Product Code:	908310
Product Construction:	Solid woven polyester carcass with black PVC top and bottom covers.
Color:	Black
Compound Formulation:	Fire resistant, and oil and fat resistant PVC covers and impregnated carcass
Nominal Overall Gauge, inches:	0.370 +/- 0.010
mm:	9.4 +/- 0.25
Nominal Weight, in lbs/ft²:	2.4 +/- 10%
in kg/m²:	11.7 +/- 10%
Rated Working Tension:	450 lbs./in. / 79 N/mm. @ 1.5%
Top Cover Surface:	Smooth
Bottom Cover Surface:	Smooth
Minimum Pulley Diameter:	10 inches / 254 mm.
Temperature Range:	0° to 180° F, / -18° to 82°C.
Transverse Rigidity:	N/A
Special Standards:	Fire resistant to MSHA 2G/ASTM D378. Static conductive to OSHA 29 CFR.
Cover Coefficient of Friction, Steel:	0.83 Nominal
Bottom Coefficient of Friction, Steel:	0.83 Nominal
Production Width(s):	72 inches / 1829 mm.
Typical Applications:	Bucket elevators, recycling, grain, feed & seed fertilizer, applications requiring good tear resistance and resistance to oils and fats.
Specification Date:	May 14, 2009

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TRANSTEX PRODU	CT SPECIFICATIONS
Product Specification:	PVC 350 O/M CxC Black
Transtex Product Code:	908732
Product Construction:	Solid woven polyester carcass with black PVC top and bottom covers.
Color:	Black
Compound Formulation:	Fire resistant PVC Covers and PVC Impregnated
Nominal Overall Gauge, inches: mm:	0.305 +/- 0.01 7.7 +/- 0.25
Nominal Weight, in lbs/ft²: in kg/m²:	2.0 +/- 10 % 9.8 +/- 10 %
Rated Working Tension:	350 lbs./in. / 61 N/mm. @ 1.5%
Top Cover Surface:	Smooth
Bottom Cover Surface:	Smooth
Minimum Pulley Diameter:	7 inches / 178 mm.
Temperature Range:	0° to 180° F./-18° to 82°C.
Transverse Rigidity:	N/A
Special Standards:	Fire resistant to MSHA 2G/ASTM D378. Static conductive to OSHA 29 CFR.
Cover Coefficient of Friction, Steel:	0.83 Nominal
Bottom Coefficient of Friction, Steel:	0.83 Nominal
Production Width(s):	72 inches / 1829 mm.
Typical Applications:	Bucket elevators, recycling, grain, feed & seed fertilizer, applications requiring good tear resistance.
Specification Date:	May 14, 2009

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TRANSTEX PRODU	CT SPECIFICATIONS
Product Specification:	PVC 350 ORG CxC Black
Transtex Product Code:	908736
Product Construction:	Solid woven polyester carcass with black PVC top and bottom covers.
Color:	Black
Compound Formulation:	Fire resistant, and oil and fat resistant PVC covers and impregnated carcass
Nominal Overall Gauge, inches:	0.305 +/- 0.01
mm:	7.7 +/- 0.25
Nominal Weight, in lbs/ft²:	2.0 +/- 10%
in kg/m ² :	9.8 +/- 10%
Rated Working Tension:	350 lbs./in. / 61 N/mm. @ 1.5%
Top Cover Surface:	Smooth
Bottom Cover Surface:	Smooth
Minimum Pulley Diameter:	7 inches / 178 mm.
Temperature Range:	0° to 180° F, / -18° to 82°C.
Transverse Rigidity:	N/A
Special Standards:	Fire resistant to MSHA 2G/ASTM D378, Static conductive to OSHA 29 CFR.
Cover Coefficient of Friction, Steel:	0.83 Nominal
Bottom Coefficient of Friction, Steel:	0.83 Nominal
Production Width(s):	72 inches / 1829 mm.
Typical Applications:	Bucket elevators, recycling, grain, feed & seed fertilizer, applications requiring good tear resistance and resistance to oils and fats.
Specification Date:	May 14, 2009

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