Mercurio Conveyor Belt
EP Textile

MERCURIO
CONVEYOR BELT

Composed of a polyester carcass in the warp and nylon in the weft, the **Mercurio EP Textile Belt** presents the smallest elongation among the conventional textile belts, excellent throughability and good resistance to impact and wear.

The **Mercurio EP Textile Belt** has excellent adhesion, excellent resistance to tension, flexibility and mechanical splice and it is the belt with the broadest application in the Mining, Steel, Paper and Cellulose Industries, Cement Plants, Quarries, among others.

It is especially efficient for transporting at medium and long distance at high operation speed.

*Data subject to change without notice.

Industry	Application
Cement Plants and aggregates	Employed for the transport of different materials with high granulometry.
Fertilizers	Present in all process stages, except for the Reaction Conveyor Belt.
Mining	It is indicated for transport of material at medium and long distance with excellent cost - benefit relation.
Wood, Paper and Cellulose	Present in all process stages, except for the Log Conveyor Belt.
Steelmaking	Used for transport of materials with high Temperature.

For adequate specification of the **Mercurio EP Textile Belt**, contact our highly specialized Application Engineering and Technical Assistance teams.

Tradition and Quality in Textile Conveyor Belts

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Technical Data | Metric Units

MINIMUM AND MAXIMUM BELT WIDTH

Mercurio Carcass DIN 22102	Working Tension [N/mm]	Carcass Weigth [kg/m²] +/- 2,5%	Carcass Thickness [mm] +/- 1	Throughability Minimum Belt Width			0 - 800 kg/m³			801 - 1600 kg/m³			1601 - 2400 kg/m³			Over 2400 kg/m³		
				20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg
				Milimeters														
EP 250/2	25	2,2	1,9	250	300	450	1.000	900	800	800	800	800	800	600	500	800	600	-
EP 315/2	31,5	3,3	2,9	350	400	500	1.200	1.000	1.000	1.000	900	800	1.000	900	800	900	800	800
EP 400/2	40	3,6	3,3	400	450	600	1.400	1.200	1.200	1.000	900	900	1.000	900	800	900	800	800
EP 400/3	40	3,3	2,9	350	500	500	1.200	1.000	900	1.000	1.000	800	900	800	600	900	800	600
EP 500/3	50	4,6	4,1	500	500	600	1.400	1.600	1.600	1.400	1.400	1.200	1.200	1.200	1.000	1.200	1.200	1.000
EP 630/2	63	4,9	4,4	500	600	800	1.600	1.600	1.200	1.600	1.400	1.200	1.600	1.400	1.000	1.400	1.200	1.000
EP 630/3	63	5,0	5,7	500	600	800	1.800	1.600	1.600	1.800	1.400	1.200	1.400	1.200	1.000	1.400	1.200	1.000
EP 630/4	63	6,1	5,4	500	600	800	1.800	1.800	1.600	1.800	1.600	1.600	1.800	1.600	1.400	1.600	1.400	1.400
EP 800/4	80	6,7	6,2	800	800	900	2.200	1.800	1.800	1.800	1.600	1.600	1.800	1.600	1.600	1.600	1.400	1.400
EP 1000/3	100	5,9	5,5	800	800	900	2.200	1.800	1.600	1.800	1.600	1.600	1.800	1.600	1.400	1.600	1.400	1.200
EP 1000/5	100	8,4	8,8	800	900	1.000	2.200	2.200	2.200	2.200	1.800	1.800	1.800	1.600	1.600	1.600	1.600	1.600
EP 1250/3	125	7,4	7,1	800	800	900	2.200	2.200	2.200	2.200	1.800	1.800	1.800	1.600	1.600	1.600	1.600	1.400
EP 1250/4	125	7,8	7,2	900	900	1.000	2.200	2.200	2.200	2.200	1.800	1.800	2.200	1.800	1.600	1.800	1.600	1.600
EP 1250/6	125	10,0	10,3	900	1.000	1.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	1.800	1.800	1.800	1.600	1.600
EP 1600/4	160	9,8	9,4	900	900	1.000	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	1.800	2.200	1.800	1.800
EP 1600/5	160	9,9	9,1	1.000	1.000	1.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	1.800	2.200	1.800	1.600
EP 2000/4	200	10,8	9,9	900	1.000	1.000	2.200	2.400	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	1.800	1.800
EP 2000/5	200	12,3	11,7	1.000	1.000	1.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200
EP 2500/4	250	14,4	14,6	900	1.000	1.000	2.200	2.400	2.200	2.200	2.200	2.200	2.200	2.200	2.200	2.200	1.800	1.800
EP 2500/5	250	13,5	12,3	1.000	1.200	1.200	2.400	2.400	2.400	2.200	2.400	2.200	2.200	2.200	2.200	2.200	2.200	1.800
EP 2500/6	250	14,7	14,1	1.200	1.200	1.400	2.200	2.400	2.200	2.200	2.400	2.200	2.200	2.200	2.200	2.200	2.200	2.200
EP 3150/5	315	18,1	17,3	1.000	1.200	1.200	2.400	2.400	2.400	2.200	2.400	2.200	2.200	2.200	2.200	2.200	2.200	1.800
EP 3150/6	315	16,2	14,7	1.200	1.200	1.400	2.400	2.400	2.400	2.200	2.400	2.400	2.400	2.200	2.200	2.200	2.200	2.200
EP 3500/6	350	21,7	22,0	1.200	1.200	1.400	2.400	2.400	2.400	2.200	2.400	2.400	2.200	2.200	2.200	2.200	2.200	2.200

MINIMUM PULLEY DIAMETERS

Carcass	EP 250/2	EP 315/2 EP 400/2	EP 400/3	EP 500/3 EP 630/2	EP 630/3	EP 630/4 EP 800/4	EP 1000/3	EP 1000/5 EP 1250/3	EP 1250/4	EP 1250/6	EP 1600/4	EP 1600/5	EP 2000/4	EP 2000/5	EP 2500/4	EP 2500/5	EP 2500/6 EP 3150/5	EP 3150/6	EP 3500/6
Working Tension	Milimeters																		
Up to 40%	250	300	300	350	350	400	400	450	450	500	500	500	600	600	800	800	900	900	1.000
Over 40% up to 60%	250	350	350	400	400	450	450	500	500	600	600	600	800	800	900	900	1.000	1.000	1.200
Over 60% up to 80%	300	400	400	450	450	500	500	600	600	800	800	800	900	900	1.000	1.000	1.200	1.200	1.400
Over 80%	350	450	450	500	500	600	600	800	800	900	900	900	1.000	1.000	1.200	1.200	1.400	1.400	1.400

Available with Cover:

Abrasion line, Mercorip / AC and ACP / AT / OAN / TG and TGS / EAR

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Technical Data | Imperial Units

MINIMUM AND MAXIMUM BELT WIDTH

Mercurio Carcass DIN 22102	Working Tension [PIW]	Carcass Weigth [lb/ft²] +/- 2,5%	Carcass Thickness [in] +/- 0,04	Throughability Minimum Belt Width			0 - 50 lb/ft³			51 - 100 lb/ft³			101 - 150 lb/ft³			Over 150 lb/ft³		
				20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg	20 deg	35 deg	45 deg
				Inches														
EP 250/2	143	0.5	0.08	10	12	18	42	36	30	30	30	30	30	24	18	30	24	-
EP 315/2	180	0.7	0.12	14	16	18	48	42	42	42	36	30	42	36	30	36	30	30
EP 400/2	229	0.8	0.13	16	18	24	54	48	48	42	36	36	42	36	30	36	30	30
EP 400/3	229	0.7	0.12	14	18	18	48	42	36	42	42	30	36	30	24	36	30	24
EP 500/3	286	1.0	0.17	18	18	24	54	60	60	54	54	48	48	48	42	48	48	42
EP 630/2	360	1.1	0.18	18	24	30	60	60	48	60	54	48	60	54	42	54	48	42
EP 630/3	360	1.1	0.23	18	24	30	72	60	60	72	54	48	54	48	42	54	48	42
EP 630/4	360	1.3	0.22	18	24	30	72	72	60	72	60	60	72	60	54	60	54	54
EP 800/4	457	1.4	0.25	30	30	36	86	72	72	72	60	60	72	60	60	60	54	54
EP 1000/3	571	1.3	0.22	30	30	36	86	72	60	72	60	60	72	60	54	60	54	48
EP 1000/5	571	1.8	0.35	30	36	42	86	86	86	86	72	72	72	60	60	60	60	60
EP 1250/3	714	1.6	0.28	30	30	36	86	86	86	86	72	72	72	60	60	60	60	54
EP 1250/4	714	1.6	0.29	36	36	42	86	86	86	86	72	72	86	72	60	72	60	60
EP 1250/6	714	2.1	0.41	36	42	48	86	86	86	86	86	86	86	72	72	72	60	60
EP 1600/4	914	2.1	0.38	36	36	42	86	86	86	86	86	86	86	86	72	86	72	72
EP 1600/5	914	2.1	0.36	42	42	48	86	86	86	86	86	86	86	86	72	86	72	60
EP 2000/4	1,142	2.3	0.39	36	42	42	86	96	86	86	86	86	86	86	86	86	72	72
EP 2000/5	1,142	2.6	0.47	42	42	48	86	86	86	86	86	86	86	86	86	86	86	86
EP 2500/4	1,428	3.0	0.58	36	42	42	86	96	86	86	86	86	86	86	86	86	72	72
EP 2500/5	1,428	2.8	0.49	42	48	48	96	96	96	86	96	86	86	86	86	86	86	72
EP 2500/6	1,428	3.1	0.56	48	48	54	86	96	86	86	96	86	86	86	86	86	86	86
EP 3150/5	1,799	3.8	0.69	42	48	48	96	96	96	86	96	86	86	86	86	86	86	72
EP 3150/6	1,799	3.4	0.58	48	48	54	96	96	96	86	96	96	96	86	86	86	86	86
EP 3500/6	1,999	4.5	0.87	48	48	54	96	96	96	86	96	96	86	86	86	86	86	86

MINIMUM PULLEY DIAMETERS

Carcass	EP 250/2	EP 315/2 EP 400/2	EP 400/3	EP 500/3 EP 630/2	EP 630/3	EP 630/4 EP 800/4	EP 1000/3	EP 1000/5 EP 1250/3	EP 1250/4	EP 1250/6	EP 1600/4	EP 1600/5	EP 2000/4	EP 2000/5	EP 2500/4	EP 2500/5	EP 2500/6 EP 3150/5	EP 3150/6	EP 3500/6
Working Tension	Inches																		
Up to 40%	10	12	12	14	14	16	16	18	18	18	18	18	24	24	30	30	36	36	42
Over 40% up to 60%	10	14	14	16	16	18	18	18	18	24	24	24	30	30	36	36	42	42	48
Over 60% up to 80%	12	16	16	18	18	18	18	24	24	30	30	30	36	36	42	42	48	48	54
Over 80%	14	18	18	18	18	24	24	30	30	36	36	36	42	42	48	48	54	54	54

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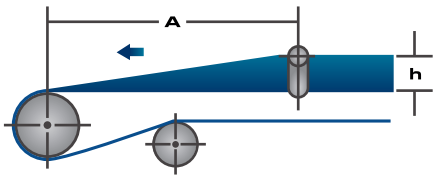
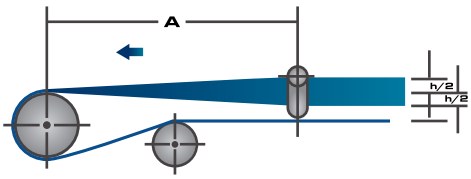
Recommended Minimum Transition Distance

The transition zone is the point on the conveyor where the belt changes plane. Defined as the distance from the last troughing idler to the centerline of the terminal pulley. Improper transition distances and geometry can cause irreparable damage to the belt.
There are two configurations, full and Half trough.

FULL TROUGHT:



HALF TROUGHT:



Trough Idler	% Working Tension	Minimum Transition Distance
20°	> 90	1.8 x W
	60 to 90	1.6 x W
	< 60	1.2 x W
35°	> 90	3.2 x W
	60 to 90	2.4 x W
	< 60	1.8 x W
45°	> 90	4.0 x W
	60 to 90	3.2 x W
	< 60	2.4 x W

(W) Belt Width

Trough Idler	% Working Tension	Minimum Transition Distance
20°	> 90	0.9 x W
	60 to 90	0.8 x W
	< 60	0.6 x W
35°	> 90	1.6 x W
	60 to 90	1.3 x W
	< 60	1.0 x W
45°	> 90	2.0 x W
	60 to 90	1.6 x W
	< 60	1.3 x W

(W) Belt Width