

Steel cord conveyor belts

1. Application

Steel cord conveyor belts are widely used in high strength, long distance and heavy load transportation of materials, and they are also used in high strength and short distance transportation of materials on special occasions.

2. /types

Steel cord conveyor belts include belts of ordinary, oil-resistant, heat-resistant, acid-alkali-resistant, cold-resistant, flame-retardant, tear-resistant, lifting and so on.

3. Specification and technical data:		Standard:GB/T9770-2013																				
type		500	630	800	1000	1250	1400	1600	1800	2000	2250	2500	2800	3150	3500	4000	4500	5000	5400	6300	7000	7500
tensile strength Knmin(N/mm)		500	630	800	1000	1250	1400	1600	1800	2000	2250	2500	2800	3150	3500	4000	4500	5000	5400	6300	7000	7500
max cord diam.d max(mm)		3	3	3.5	4	4.5	5	5	5.6	6	5.6	7.2	7.2	8.1	8.6	8.9	9.7	10.9	11.3	12.8	13.5	15
min breaking force F bs min.(kn)		7.6	7.0	8.9	12.9	16.1	20.6	20.6	25.5	25.6	26.2	40.0	39.6	50.5	56.0	63.5	76.3	91.0	98.2	130.4	142.4	166.7
cord pitch(mm)		14.0	10.0	10.0	12.0	12.0	14.0	12.0	13.5	12.0	11.0	15.0	13.5	15.0	15.0	15.0	16.0	17.0	17.0	19.5	19.5	21.0
min.cover thickness S.min(mm)		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.5	6.0	6.5	7.0	7.5	8.0	10.0	10.0	10.0
belt width(mm)	limit deviation(mm)	/No.of cords Notice: N/A -																				
500	+10/-5	33	45	45	39	39	34	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
650	+10/-7	44	60	60	51	51	45	51	46	52	56	41	46	41	41	41	39	36	N/A	N/A	N/A	N/A
800	+10/-8	54	75	75	63	63	55	63	57	63	69	50	57	50	50	51	48	45	45	N/A	N/A	N/A
1000	+10	68	95	95	79	79	68	79	71	79	86	64	71	64	64	64	59	55	55	N/A	N/A	N/A
1200	+10	83	113	113	94	94	82	94	85	94	104	76	85	76	77	77	71	66	66	58	59	54
1400	+12	96	133	133	111	111	97	111	100	111	122	89	99	89	89	90	84	78	78	68	69	64
1600	+12	111	151	151	126	126	111	126	114	126	140	101	114	101	104	104	96	90	90	78	80	73
1800	+14	125	171	171	143	143	125	143	129	143	159	114	128	114	117	117	109	102	102	89	90	83
2000	+14	139	191	191	159	159	139	159	144	159	177	128	143	128	130	130	121	113	113	99	100	92
2200	+15	153	211	211	176	176	154	176	159	176	195	141	158	141	144	144	134	125	125	109	11	102
2400	+15	167	231	231	193	193	168	193	174	193	213	155	173	155	157	157	146	137	137	119	119	110
2600	+15	181	251	251	209	209	182	209	189	209	231	168	188	168	170	170	159	149	149	129	129	120

2800	+15	196	271	271	226	226	197	226	203	226	249	181	202	181	183	183	171	161	161	139	139	129
3000	+15	210	291	291	243	243	211	243	218	243	268	195	217	195	195	195	183	172	172	149	149	139
3200	+15	224	311	311	260	260	225	260	233	260	286	208	232	208	208	208	196	184	184	160	160	149

4. Cover grades

Test item		property index					
		GB/T 9770-2013			HG/T 3973-2007		
		H	D	L	H	D	L
tensile strength	Mpa>=	24	18	15	20	18	15
elongation at break	%>=	450	400	350	400	400	350
after aging(70°C, 7D)	%	-25~+25	-25~+25	-25~+25	-25~+25	-25~+25	-25~+25
change rate of tensile strength							
change rate elongation at break							
abrasion	mm³<=	120	100	200	200	120	200