

PART II – TECHNICAL SPECIFICATIONS

Ash and Gypsum Handling System

Conveyor Belt Spare Parts

**ITEM A – Belt Wagon and Discharge
Boom Conveyor Belt
Steel Cord Belt 1200 ST630 6/4 X**

PART II - TECHNICAL SPECIFICATIONS: Ash and Gypsum Handling System Conveyor Belt Spare Parts

Item	Description	Specifications	Unit	Reference Standard
A	Belt Wagon and Discharge Boom Conveyor Belt			
1	General			
1.1	Carcass Material	Steel Cord	-	DIN 22131
1.2	Designation	1200 ST630 6/4 X	-	DIN 22131
1.3	Width	1200	mm	DIN 22131
1.4	Belt Rating	ST630	kN/m	DIN 22131
1.5	Top Cover Thickness	6	mm	DIN 22131
1.6	Bottom Cover Thickness	4	mm	DIN 22131
1.7	Top Cover Rubber Grade	X	-	DIN 22131
1.8	Bottom Cover Rubber Grade	X	-	DIN 22131
1.9	Total Belt Thickness	≥ 13.3	mm	DIN 22131
1.10	Weight of Belt	Approximately 22.4	kg/m	-
1.11	Elastic Modulus	45360	kN/m	DIN 22131
1.12	Trough Ability at 45° Troughing Angle	0.22	f/b	DIN 22131
2	Steel Cord			
2.1	Number of Cord	87	-	-
2.2	Diameter	3.3	mm	-
2.3	Design and Structure	Open, K7x7+IWS	-	-
2.4	Pitch	13.5	mm	DIN 22131
2.5	Breaking Strength per Cord	10.000	kN	-
2.6	Pull-Out Strength before aging	60	N/mm	DIN 22131
2.7	Pull-Out Strength after aging	55	N/mm	DIN 22131
3	Core Rubber			
3.1	Specific Density	1.11	g/cm ³	DIN 53550
3.2	Tensile Strength	17	N/mm ²	DIN 53504
3.3	Elongation at Break	450	%	DIN 53504
3.4	Tear Resistance	14	N/mm	DIN 53507
3.5	Hardness	70 ±5	Shore A	DIN 53505
4	Cover Rubber			
4.1	Specific Density	1.11	g/cm ³	DIN 53550
4.2	Tensile Strength	25	N/mm ²	DIN 53504
4.3	Tensile Strength after 7 days at 70°C	18	N/mm ²	DIN 53508
4.4	Elongation at Break	450	%	DIN 53504
4.5	Elongation at Break after 7 days at 70°C	350	%	DIN 53508
4.6	Abrasion Resistance	120	mm ³	DIN 53516
4.7	Tear Resistance	12	N/mm	DIN 53507
4.8	Hardness	65 ± 5	Shore A	DIN 53505
4.9	Ozone Cracking Resistance 48h at 50pphm	No crack	-	DIN 53509
4.10	Separation Strength of top/bottom cover and core rubber	25	N/mm	DIN 22131
4.11	Speculated Tear Off of top/bottom cover after 7 days at 70°C	12	N/mm	-

**ITEM B – Ash Conveyor Line
Conveyor Belt
Steel Cord Belt 1200 ST1600 8/6 X**

PART II - TECHNICAL SPECIFICATIONS: Ash and Gypsum Handling System Conveyor Belt Spare Parts

Item	Description	Specifications	Unit	Reference Standard
B	Ash Conveyor Line Conveyor Belt			
1	General			
1.1	Carcass Material	Steel Cord	-	DIN 22131
1.2	Designation	1200 ST1600 8/6 X	-	DIN 22131
1.3	Width	1200	mm	DIN 22131
1.4	Belt Rating	ST1600	kN/m	DIN 22131
1.5	Top Cover Thickness	8	mm	DIN 22131
1.6	Bottom Cover Thickness	6	mm	DIN 22131
1.7	Top Cover Rubber Grade	X	-	DIN 22131
1.8	Bottom Cover Rubber Grade	X	-	DIN 22131
1.9	Total Belt Thickness	≥ 19.6	mm	DIN 22131
1.10	Weight of Belt	Approximately 31.1	kg/m	-
1.11	Elastic Modulus	115200	kN/m	DIN 22131
1.12	Trough Ability at 45° Troughing Angle	0.16	f/b	DIN 22131
2	Steel Cord			
2.1	Number of Cord	76	-	-
2.2	Diameter	5.6	mm	-
2.3	Design and Structure	Open, K7x7+IWS	-	-
2.4	Pitch	15	mm	DIN 22131
2.5	Breaking Strength per Cord	26.2	kN	-
2.6	Pull-Out Strength before aging	88	N/mm	DIN 22131
2.7	Pull-Out Strength after aging	78	N/mm	DIN 22131
3	Core Rubber			
3.1	Specific Density	1.11	g/cm ³	DIN 53550
3.2	Tensile Strength	17	N/mm ²	DIN 53504
3.3	Elongation at Break	450	%	DIN 53504
3.4	Tear Resistance	14	N/mm	DIN 53507
3.5	Hardness	70 ± 5	Shore A	DIN 53505
4	Cover Rubber			
4.1	Specific Density	1.11	g/cm ³	DIN 53550
4.2	Tensile Strength	25	N/mm ²	DIN 53504
4.3	Tensile Strength after 7 days at 70°C	18	N/mm ²	DIN 53508
4.4	Elongation at Break	450	%	DIN 53504
4.5	Elongation at Break after 7 days at 70°C	350	%	DIN 53508
4.6	Abrasion Resistance	120	mm ³	DIN 53516
4.7	Tear Resistance	12	N/mm	DIN 53507
4.8	Hardness	65 ± 5	Shore A	DIN 53505
4.9	Ozone Cracking Resistance 48h at 50pphm	No crack	-	DIN 53509
4.10	Separation Strength of top/bottom cover and core rubber	25	N/mm	DIN 22131
4.11	Speculated Tear Off of top/bottom cover after 7 days at 70°C	12	N/mm	-