

FireProof Belt

NON-FLAMMABLE AND ANTI-ELECTROSTATIC

FireProof Belt non-flammable multi-ply conveyor belts are designed for the transport of loose materials under conditions of increased fire risk, e.g. for the transport of coal in plants during processing, on the surface in mining companies, in power plants and in combined (heat and electricity) power plants.

Depending on the belt type, it meets the safety requirements class 2A, 2B, 3A, 3B referred to in ISO 14890 standard. In accordance to DIN 22102 standard, the belts have a special property: "K": for non-flammable covers, or "S": for non-flammable, with and without covers, tested to ISO 340 standard. All types of non-flammable belts manufactured are also anti-electrostatic.

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TABLE 4.1 Physical and mechanical properties of **FireProof** rubber conveyor belt with non-flammable covers.

LUFH QUALITY	Tensile Strength, min (TS) [Mpa]	Elongation at break, min. (Eb) [%]	Abrasion Resistance , max. [mm ³]	Equivalent ISO 14890	Security Category referred to ISO 14890				Equivalent DIN 22102	TECHNICAL FEATURES
					2A	2B	3A	3B		
FA	18	450	90	D	2A	2B	3A	3B	W/K/S	Fire resistant and anti-electrostatic cover with excellent abrasion resistance.
FI	24	450	120	H	2A	2B	3A	3B	X/K/S	Fire resistant and anti-electrostatic cover with excellent impact resistance.
FN	20	400	150	-	2A	2B	3A	3B	Y/K/S	Fire resistant and anti-electrostatic cover with moderate abrasion resistance.
FG	15	350	200	L	2A	2B	3A	3B	Z/K/S	Fire resistant and anti-static cover for secondary applications.

TABLE 4.2 FireProof range of conveyor belts manufactured with non-flammable covers, includes standard width, weight, carcass thickness and minimum pulley diameters.

BELT STRENGTH / N°. OF PLYS	Standard Belt Width [mm] ¹		Approximate Carcass Thickness Sc, Max.[mm]		Approximate Carcass Weight [kg/m ²]				Minimum recommended pulley diameters [mm]					
					EP		PP		Carcass EP			Carcass PP		
	Safety Class EN 12882 / Special Characteristic DIN 22102		Safety Class EN 12882 / Special Characteristic DIN 22102		A	B	C	A						
	Min.	Max.	EP	PP					2A, 3A / K	2B, 3B / S	2A, 3A / K	2B, 3B / S		
400/3	500	1400	4,2	-	6,1	6	-	-	400	315	250	-	-	-
500/3	500	1400	4,2	-	6,1	6	-	-	400	315	250	-	-	-
630/3	500	1800	5,1	4,8	6,6	6,5	6,3	6,2	500	400	315	400	315	250
630/4	500	1400	5,6	-	8,1	8	-	-	630	500	400	-	-	-
800/3	500	1800	5,7	5,4	7	6,9	6,7	6,6	630	500	400	500	400	315
800/4	500	1800	6,8	6,4	8,8	8,6	8,4	8,3	800	630	500	630	500	400
800/5	500	1400	7	-	10,2	10	-	-	800	630	500	-	-	-
1000/3	650	1800	6	5,7	7,7	7,7	7,2	7,1	630	500	400	500	400	315
1000/4	650	1800	7,6	6,8	9,4	9,3	8,6	8,5	800	630	500	630	500	400
1000/5	650	1800	8,5	8	10,9	10,8	10,5	10,4	1000	800	630	800	630	500
1250/3	650	1800	6,9	6,3	8,8	8,7	8	7,9	800	630	500	630	500	400
1250/4	650	1800	8	7,2	10,3	10,2	9	8,9	800	630	500	630	500	400
1250/5	650	1800	9,5	8,5	11,7	11,6	10,8	10,7	1000	800	630	800	630	500
1400/4	800	1800	8,4	7,6	10,9	10,8	9,6	9,4	1000	800	630	630	500	400
1600/4	1000	1800	9,2	8,4	11,7	11,6	10,6	10,5	1000	800	630	800	630	500
1600/5	1000	1800	10	9,5	12,9	12,7	12	11,8	1250	1000	800	800	630	500
1800/4	1200	1800	9,6	10,4	12,3	12	12,2	12	1000	800	630	1000	800	630
1800/5	1200	1800	10,5	10,5	13,7	13,5	13,3	13,1	1250	1000	800	1000	800	630
2000/4	1200	1800	9,6	10,4	12,3	12	12,2	12	1000	800	630	1000	800	630
2000/5	1200	1800	11,5	10,5	14,7	14,5	13,3	13,1	1250	1000	800	1000	800	630
2500/4	1200	1800	12,8	11,2	15,7	15,6	13,5	13,4	1400	1250	1000	1250	1000	800
2500/5	1200	1800	13	13	16,3	16,2	15,2	15	1400	1250	1000	1400	1250	1000

¹ The types and widths of the belts, other than those determined in Table 4.2, must be agreed with our factory **TABLE 4.2**. The recommended minimum pulley diameters [mm] for belts in the tension range of 60 to 100% are specified according to DIN 22101 standard: **A**: Drive pulleys and other pulleys in the high belt tension range. **B**: Deflection pulleys and other pulleys in the low belt tension range. **C**: Support pulleys (change in the direction of belt movement ≤ 30 degrees).