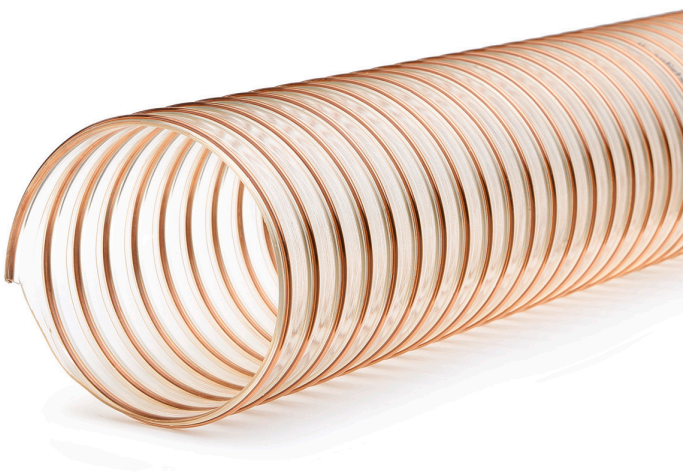
SMARTFLEX® PU 1

Medium weight and flexible spiral hose made of Polyurethane, flame retardant



Applications wood dust extraction, sawing & milling, grass extraction, leaf extraction, conveying of abrasive media

Structure Polyether-Polyurethane, transparent, steel wire / spring steel wire / not coated / copper plated

Temperature -40°C up to 100°C, short term up to 125°C

Properties flame-retardant, permanently antistatic (R < 10^9 Ohm), hydrolysis & microbe resistant, good flexibility, very smooth inside, corrugated outside

Norms flame-retardant according to DIN 4102 / B1 | TRBS 2153/TRGS 727, ATEX 2014/34/EU / pneumatic transport of combustible dusts (inside: zone 20, 21, 22) | discharge capability according to BGI 739-2 with spiral earthing





made in Germany

Inner Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Bending Radius (mm)	Max. Operating Pressure (bar)	Vacuum Max. (bar)	Total Weight per Piece (kg)	Length (m)	Article Number
25	31,00	1,00	21	1,96	0,55	3,37	10	ND53702500K
25	31,00	1,00	21	1,96	0,55	5,05	15	ND53702500M
30	36,00	1,00	26	1,96	0,55	3,37	10	ND53703000K
32	38,00	1,00	28	1,80	0,50	3,37	10	ND53703200K
32	38,00	1,00	28	1,80	0,50	5,05	15	ND53703200M
38	44,00	1,00	32	1,69	0,45	3,37	10	ND53703800K
38	44,00	1,00	32	1,69	0,45	5,05	15	ND53703800M
40	47,00	1,00	34	1,69	0,45	3,37	10	ND53704000K
40	47,00	1,00	34	1,69	0,45	5,05	15	ND53704000M
50	57,00	1,00	43	1,32	0,40	6,26	15	ND53705000M
50	57,00	1,00	43	1,32	0,40	4,17	10	ND53705000K
60	67,00	1,00	51	1,27	0,35	4,97	10	ND53706000K
60	67,00	1,00	51	1,27	0,35	7,46	15	ND53706000M
65	72,00	1,00	56	1,25	0,34	5,37	10	ND53706500K
65	72,00	1,00	56	1,25	0,34	8,06	15	ND53706500M
70	77,00	1,00	59	1,20	0,32	5,77	10	ND53707000K
70	77,00	1,00	59	1,20	0,32	8,66	15	ND53707000M
76	83,00	1,00	65	1,10	0,30	6,26	10	ND53707600K
76	83,00	1,00	65	1,10	0,30	9,38	15	ND53707600M
80	87,00	1,00	68	1,05	0,25	7,40	10	ND53708000K
80	87,00	1,00	68	1,05	0,25	11,09	15	ND53708000M
90	97,00	1,00	77	0,85	0,25	8,30	10	ND53709000K

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Date: 24.11.2026

Inner Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Bending Radius (mm)	Max. Operating Pressure (bar)	Vacuum Max. (bar)	Total Weight per Piece (kg)	Length (m)	Article Number
90	97,00	1,00	77	0,85	0,25	12,45	15	ND53709000M
100	107,00	1,00	85	0,70	0,23	9,20	10	ND53710000K
100	107,00	1,00	85	0,70	0,23	13,80	15	ND53710000M
110	117,00	1,00	94	0,65	0,20	10,10	10	ND53711000K
110	117,00	1,00	94	0,65	0,20	15,15	15	ND53711000M
120	128,00	1,00	102	0,65	0,20	10,04	10	ND53712000K
120	128,00	1,00	102	0,65	0,20	15,07	15	ND53712000M
125	133,00	1,00	106	0,55	0,20	10,45	10	ND53712500K
125	133,00	1,00	106	0,55	0,20	15,67	15	ND53712500M
140	148,00	1,00	119	0,55	0,15	11,66	10	ND53714000K
140	148,00	1,00	119	0,55	0,15	17,49	15	ND53714000M
150	158,00	1,00	128	0,45	0,15	12,47	10	ND53715000K
150	158,00	1,00	128	0,45	0,15	18,70	15	ND53715000M
160	168,00	1,00	136	0,40	0,15	13,28	10	ND53716000K
160	168,00	1,00	136	0,40	0,15	19,92	15	ND53716000M
180	188,00	1,00	153	0,35	0,12	14,89	10	ND53718000K
180	188,00	1,00	153	0,35	0,12	22,34	15	ND53718000M
200	208,00	1,00	170	0,30	0,11	20,25	10	ND53720000K
200	208,00	1,00	170	0,30	0,11	30,37	15	ND53720000M
250	258,00	1,00	213	0,25	0,08	37,89	15	ND53725000M
250	258,00	1,00	213	0,25	0,08	25,26	10	ND53725000K
300	308,00	1,00	255	0,20	0,07	30,27	10	ND53730000K
350	359,00	1,00	298	0,18	0,06	40,33	10	ND53735000K
400	409,00	1,00	340	0,14	0,06	23,00	5	ND53740000E
400	409,00	1,00	340	0,14	0,06	46,01	10	ND53740000K
450	459,00	1,00	390	0,12	0,05	25,85	5	ND53745000E
450	459,00	1,00	390	0,12	0,05	51,69	10	ND53745000K
500	509,00	1,00	440	0,10	0,03	28,69	5	ND53750000E
500	509,00	1,00	440	0,10	0,03	57,37	10	ND53750000K

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