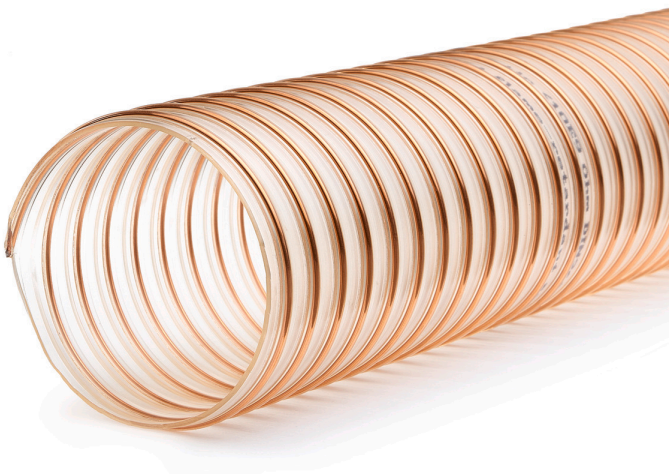
SMARTFLEX® PU 1,4

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



Applications conveying of abrasive media, granulate conveying, industrial vacuum cleaners, wood dust extraction, conveying technology

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), ATEX 2014/34/EU / conveying of flammable liquids (inside: zone 0, 1, 2) | discharge capability according to BGI 739-2 with spiral earthing | DIN 26057-3





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	33,00	1,40	25	3,75	0,90	2,41	10	ND54702500K
25	33,00	1,40	25	3,75	0,90	3,62	15	ND54702500M
32	41,00	1,40	32	3,56	0,86	4,09	10	ND54703200K
32	41,00	1,40	32	3,56	0,86	6,13	15	ND54703200M
38	47,00	1,40	38	2,88	0,70	4,67	10	ND54703800K
38	47,00	1,40	38	2,88	0,70	7,01	15	ND54703800M
40	49,00	1,40	40	2,88	0,70	4,90	10	ND54704000K
40	49,00	1,40	40	2,88	0,70	7,35	15	ND54704000M
50	59,00	1,40	50	2,38	0,60	6,44	10	ND54705000K
50	59,00	1,40	50	2,38	0,60	9,65	15	ND54705000M
60	69,00	1,40	60	2,25	0,55	7,65	10	ND54706000K
60	69,00	1,40	60	2,25	0,55	11,48	15	ND54706000M
65	74,00	1,40	65	2,15	0,55	8,26	10	ND54706500K
65	74,00	1,40	65	2,15	0,55	12,39	15	ND54706500M
70	79,00	1,40	70	2,00	0,55	8,87	10	ND54707000K
70	79,00	1,40	70	2,00	0,55	13,30	15	ND54707000M
76	85,00	1,40	76	1,75	0,50	9,59	10	ND54707600K
76	85,00	1,40	76	1,75	0,50	14,39	15	ND54707600M
80	89,00	1,40	80	1,50	0,45	15,12	15	ND54708000M
80	89,00	1,40	80	1,50	0,45	10,08	10	ND54708000K
90	99,00	1,40	90	1,35	0,40	11,29	10	ND54709000K
90	99,00	1,40	90	1,35	0,40	16,94	15	ND54709000M

Ocono France SARL | 30 Chemin de Fortuneau | 26200 Montélimar | France | T +33 475 017575 | france@ocono.com

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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
100	110,00	1,40	100	1,21	0,40	13,51	10	ND54710000K
100	110,00	1,40	100	1,21	0,40	20,26	15	ND54710000M
110	120,00	1,40	110	1,15	0,38	15,81	10	ND54711000K
110	120,00	1,40	110	1,15	0,38	23,71	15	ND54711000M
115	125,00	1,40	115	1,10	0,35	15,46	10	ND54711500K
115	125,00	1,40	115	1,10	0,35	23,18	15	ND54711500M
120	130,00	1,40	120	0,99	0,30	24,16	15	ND54712000M
120	130,00	1,40	120	0,99	0,30	16,11	10	ND54712000K
127	137,00	1,40	127	0,88	0,25	17,01	10	ND54712500K
127	137,00	1,40	127	0,88	0,25	25,52	15	ND54712500M
140	150,00	1,40	140	0,77	0,20	18,70	10	ND54714000K
140	150,00	1,40	140	0,77	0,20	28,05	15	ND54714000M
150	160,00	1,40	150	0,77	0,20	20,00	10	ND54715000K
150	160,00	1,40	150	0,77	0,20	30,00	15	ND54715000M
160	170,00	1,40	160	0,66	0,20	21,30	10	ND54716000K
160	170,00	1,40	160	0,66	0,20	31,95	15	ND54716000M
180	190,00	1,40	180	0,55	0,15	29,01	10	ND54718000K
180	190,00	1,40	180	0,55	0,15	43,52	15	ND54718000M
200	211,00	1,40	200	0,55	0,15	27,96	10	ND54720000K
200	211,00	1,40	200	0,55	0,15	41,93	15	ND54720000M
250	261,00	1,40	250	0,38	0,10	34,75	10	ND54725000K
250	261,00	1,40	250	0,38	0,10	52,12	15	ND54725000M
300	311,00	1,40	300	0,30	0,10	41,54	10	ND54730000K
350	361,00	1,40	350	0,28	0,09	46,07	10	ND54735000K
400	411,00	1,40	400	0,25	0,09	60,83	10	ND54740000K
450	461,00	1,40	450	0,13	0,08	34,17	5	ND54745000E
450	461,00	1,40	450	0,13	0,08	68,34	10	ND54745000K

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