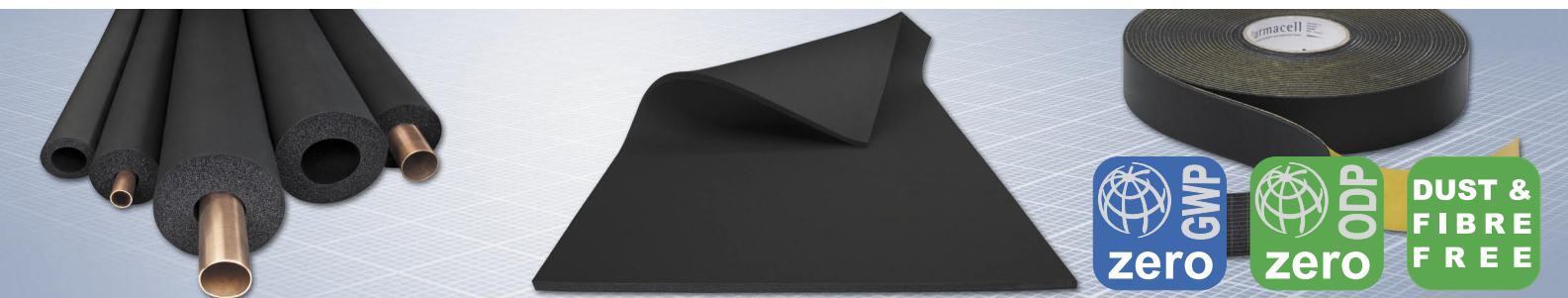




AF/Armaflex®

**THE FLEXIBLE PROFESSIONAL INSULATION WITH
REVOLUTIONARY CHARACTERISTICS**

- » Built-In Vapour Barrier Prevents Condensation
- » Reduce Energy Losses Up to 87%
- » Easy to Apply



The new AF/Armaflex is a reliable flexible insulation with a long term performance in condensation control - which is achieved thanks to the unique combination of its extremely low thermal conductivity and a high water vapour diffusion resistance. The additional advantages are a longer life-time expectancy and a higher energy efficiency of the insulated installation. This results in additional energy cost savings during the service life of the equipment. Due to the unique micro cell structure, the new AF/Armaflex has more stability, making it even easier to install. Your advantage: the quicker and easier installation saves even more time and money.



- » Built in vapour barrier prevents condensation
- » Reduce energy losses up to 87%
- » Lightweight & flexible: easy and speedy installation with low maintenance, resulting in time and cost savings



Technical Data



	Values	Remarks			
Material		Foamed nitrile rubber			
Max. Surface Temperature	+105° C	For temperatures between -50° C and -200° C, please consult our Customer Service Center.			
Max. Temperature Flat Surface & Tape	+85° C				
Min. Surface Temperature	-50° C				
Thermal Conductivity		0°C	+20°C	+40°C	
	AF1 - AF4 tubes	0,033	0,035	0,037	Test acc. to ISO 8497
	AF5 - AF6 tubes	0,036	0,038	0,040	Test acc. to ISO 8497
	Sheets, stripes, tape (AF-10MM to AF-25MM)	0,033	0,035	0,037	Test acc. to DIN EN 12667
	Sheets (AF-32MM - AF-50MM)	0,036	0,038	0,040	Test acc. to DIN EN 12667
Water Vapour Permeability Moisture Resistance Factor	$\mu \geq 10.000$ for AF1 - AF4 tubes & Sheets AF-10MM - AF-25MM		Test acc. to EN ISO 12086 and EN 13469		
	$\mu \geq 7.000$ for AF5 - AF6 tubes & Sheets AF-32MM - AF-50MM				
Reaction to fire Building material classification	DIN 4102-B1 Non- readily ignitable	• Tubes AF1 - AF6 • Tubes selfseal AF1 - AF4 • Tape, 3mm			Test acc. to DIN 4102, Part 1
	B - s3 - d0 Non- readily ignitable	• Sheets: AF-10MM - AF-32MM • Sheets, self-adhesive : AF-10MM - AF-32MM • Continuous sheets: AF-10MM - AF-32MM • Continuous Sheets, self-adhesive: AF-10MM - AF-32MM			Test acc. to DIN EN 13823
	DIN 4102-B2 Normally ignitable	• Sheets: AF-50MM • Continuous sheets: AF-50MM			Test acc. to DIN 4102, Part 1
Reaction to fire	Self-extinguishing, does not drip , does not spread flames				
Fire Resistance	• Wall penetrations • Ceiling penetrations		R90 P-3849/5370-3 MPA BS R90 P-3849/5370-3 MPA BS		Test acc. to DIN 4102, Part 11
Monitoring	Official outside monitoring by a testing laboratory				
Health Aspects	Dust & Fibre Free				

Outdoor applications should be painted with Armafinish 99 paint to the recommended thickness. Two or more coats may be required.

AF/ARMAFLEX Tubes



Length 2 m, Colour black, DIN 4102-B1 - (non-readily ignitable)

Copper pipe CU			Iron & steel pipe FE		ID min/max mm	AF1 Insulation Thickness 7,0 mm - 10,0 mm			AF2 Insulation Thickness 9,5 mm - 16,0 mm		
NB inch	Nom OD mm	Nom OD DN	Nom OD mm	Nom OD DN		mean thick- ness mm	Reference	m / carton	mean thick- ness mm	Reference	m / carton
6	4				7,0 - 8,5	7,0	AF-1-006	466	9,5	AF-2-006	288
8	6				9,0 - 10,5	7,0	AF-1-008	406	10,0	AF-2-008	240
10	8	1/8	10,2	6	11,0 - 12,5	7,5	AF-1-010	284	11,0	AF-2-010	192
12	10				13,0 - 14,5	7,5	AF-1-012	234	11,0	AF-2-012	168
15		1/4	13,5	8	16,0 - 17,5	8,0	AF-1-015	192	11,0	AF-2-015	144
18	15	3/8	17,2	10	19,0 - 20,5	8,0	AF-1-018	168	11,5	AF-2-018	120
22	20	1/2	21,3	15	23,0 - 24,5	8,5	AF-1-022	132	12,0	AF-2-022	96
25	20		25		26,0 - 27,5	8,5	AF-1-025	108	12,5	AF-2-025	84
28	25	3/4	26,9	20	29,0 - 30,5	8,5	AF-1-028	96	12,5	AF-2-028	80
30	25		30		31,0 - 33,0	9,0	AF-1-030	96	12,5	AF-2-030	72
35	32	1	33,7	25	36,0 - 38,0	9,0	AF-1-035	70	13,0	AF-2-035	60
38	32		38		39,0 - 41,0	9,0	AF-1-038	70			
42	40	1 1/4	42,4	32	43,5 - 45,5	9,0	AF-1-042	60	13,5	AF-2-042	40
44,5			44,5		46,0 - 47,5	9,0	AF-1-045	56	13,5	AF-2-045	40
48,3		1 1/2	48,3	40	49,5 - 51,5	9,0	AF-1-048	50	13,5	AF-2-048	40
54	50		54		55,0 - 57,0	9,0	AF-1-054	40	13,5	AF-2-054	32
57	50		57		58,0 - 60,0	9,0	AF-1-057	40	14,0	AF-2-057	32
60,3		2	60,3	50	61,5 - 63,5	9,0	AF-1-060	36	14,0	AF-2-060	32
64			63,5		65,0 - 67,5	9,5	AF-1-064	32	14,0	AF-2-064	28
70			70		71,0 - 73,5	9,5	AF-1-070	32	14,0	AF-2-070	28
76,1	65	2 1/2	76,1	65	77,0 - 79,5	9,5	AF-1-076	24	14,0	AF-2-076	28
80					81,0 - 84,0	9,5	AF-1-080	24	14,5	AF-2-080	24
88,9	80	3	88,9	80	90,5 - 93,5	9,5	AF-1-089	20	14,5	AF-2-089	20
104,3		3 1/2 /-	101,6/104,3		105,0 - 108,0	9,5	AF-1-102	16	14,5	AF-2-102	16
108	100		108		109,5 - 113,0	9,5	AF-1-108	16	14,5	AF-2-108	16
114	100	4	114,3	100	116,0 - 120,0	9,5	AF-1-114	16	15,0	AF-2-114	16
125			125		127,0 - 131,0	9,5	AF-1-125	12	15,0	AF-2-125	12
133	125		133		135,0 - 139,0	9,5	AF-1-133	12	15,5	AF-2-133	12
139,7		5	139,7	125	142,0 - 146,0	10,0	AF-1-140	12	15,5	AF-2-140	8
159	150		160		162,0 - 167,0	10,0	AF-1-160	8	16,0	AF-2-160	8

... product range of tubes continued overleaf

- Length tolerance: ± 1,5%
- Thickness tolerance: AF1-tubes & AF2-tubes ± 1,0 mm
- For slitted tubes delivery quoted on request.



AF/ARMAFLEX Tubes

Length 2 m, Colour black, DIN 4102-B1 - (non-readily ignitable)

Copper pipe CU			Iron & steel pipe FE		ID min/max mm	AF3 Insulation Thickness 12,5 mm - 19 mm			AF4 Insulation Thickness 15,5 mm - 25 mm		
NB inch	Nom OD mm	Nom OD DN	Nom OD mm	Nom OD DN		mean thick- ness mm	Reference	m / carton	mean thick- ness mm	Reference	m / carton
10	8	1/8	10,2	6	11,0 -12,5	12,5	AF-3-010	156	15,5	AF-4-010	110
12	10				13,0 -14,5	13,0	AF-3-012	144	16,0	AF-4-012	100
15		1/4	13,5	8	16,0 -17,5	13,5	AF-3-015	108	17,0	AF-4-015	90
18	15	3/8	17,2	10	19,0 -20,5	14,0	AF-3-018	96	17,5	AF-4-018	72
22	20	1/2	21,3	15	23,0 -24,5	14,5	AF-3-022	84	18,0	AF-4-022	64
25	20		25		26,0 -27,5	14,5	AF-3-025	70	18,5	AF-4-025	56
28	25	3/4	26,9	20	29,0 -30,5	15,0	AF-3-028	60	19,0	AF-4-028	50
30	25		30		31,0 -33,0	15,0	AF-3-030	50	19,0	AF-4-030	40
35	32	1	33,7	25	36,0 -38,0	15,5	AF-3-035	50	19,5	AF-4-035	40
42	40	1 1/4	42,4	32	43,5 -45,5	16,0	AF-3-042	40	20,0	AF-4-042	32
44,5			44,5		46,0 -47,5	16,0	AF-3-045	36	20,5	AF-4-045	28
48,3		1 1/2	48,3	40	49,5 - 51,5	16,0	AF-3-048	32	20,5	AF-4-048	24
54	50		54		55,0 -57,0	16,5	AF-3-054	24	21,0	AF-4-054	24
57	50		57		58,0 -60,0	16,5	AF-3-057	24	21,0	AF-4-057	20
60,3		2	60,3	50	61,5 -63,5	16,5	AF-3-060	24	21,5	AF-4-060	20
64			63,5		65,0 -67,5	16,5	AF-3-064	20	21,5	AF-4-064	18
70			70		71,0 -73,5	17,0	AF-3-070	18	22,0	AF-4-070	16
76,1	65	2 1/2	76,1	65	77,0 -79,5	17,0	AF-3-076	16	22,0	AF-4-076	16
80					81,0 -84,0	17,0	AF-3-080	16	22,5	AF-4-080	16
88,9	80	3	88,9	80	90,5 -93,5	17,5	AF-3-089	16	22,5	AF-4-089	12
104,3		3 1/2 -	101,6/104,3		105,0 - 108,0	17,5	AF-3-102	12	23,0	AF-4-102	10
108	100		108		109,5 - 113,0	18,0	AF-3-108	12	23,0	AF-4-108	10
114	100	4	114,3	100	116,0 - 120,0	18,0	AF-3-114	12	23,5	AF-4-114	10
125			125		127,0 - 131,0	18,5	AF-3-125	12	23,5	AF-4-125	8
133	125		133		135,0 - 139,0	18,5	AF-3-133	12	24,0	AF-4-133	6
139,7		5	139,7	125	142,0 - 146,0	19,0	AF-3-140	12	24,5	AF-4-140	6
159	150		160		162,0 - 167,0	19,0	AF-3-160	6	25,0	AF-4-160	6

... product range of tubes continued overleaf

- Length tolerance: ± 1,5%
- Thickness tolerance: AF3-tubes & AF4-tubes ± 1,5 mm
- For slitted tubes delivery quoted on request.

AF/ARMAFLEX Tubes



Length 2 m, Colour black, DIN 4102-B1 - (non-readily ignitable)

Copper pipe CU			Iron & steel pipe FE		ID min/max mm	AF5 Insulation Thickness 25 mm - 32 mm			AF6 Insulation Thickness 32 mm - 45 mm		
NB inch	Nom OD mm	Nom OD DN	Nom OD mm	Nom OD DN		mean thick- ness mm	Reference	m / carton	mean thick- ness mm	Reference	m / carton
			12	10	13,0 - 14,5				32,0	AF-6-012	40
1/4	13,5	8	15		16,0 - 17,5				32,0	AF-6-015	32
3/8	17,2	10	18	15	19,0 - 20,5	25,0	AF-5-018	50	32,0	AF-6-018	32
1/2	21,3	15	22	20	23,0 - 24,5	25,0	AF-5-022	42	32,0	AF-6-022	32
3/4	26,9	20	28	25	26,0 - 27,5	25,0	AF-5-028	40	33,5	AF-6-028	24
1	33,7	25	35	32	29,0 - 30,5	27,0	AF-5-035	24	35,0	AF-6-035	22
1 1/4	42,4	32	42	40	43,5 - 45,5	27,0	AF-5-042	22	36,5	AF-6-042	16
1 1/2	48,3	40			49,5 - 51,5	27,5	AF-5-048	18	37,5	AF-6-048	12
	54		54	50	55,0 - 57,0	28,5	AF-5-054	16	38,0	AF-6-054	12
	57		57	50	58,0 - 60,0				38,5	AF-6-057	12
2	60,3	50			61,5 - 63,5	29,0	AF-5-060	12	39,0	AF-6-060	10
	63,5		64		65,0 - 67,5	29,0	AF-5-064	12	39,5	AF-6-064	10
	70		70		71,0 - 73,5	29,5	AF-5-070	12	40,0	AF-6-070	8
2 1/2	76,1	65	76,1	65	77,0 - 79,5	30,0	AF-5-076	10	40,5	AF-6-076	8
			80		81,0 - 84,0				41,0	AF-6-080	8
3	88,9	80	88,9	80	90,5 - 93,5	30,5	AF-5-089	8	41,5	AF-6-089	6
3 1/2 /-			101,6/104,3		105,0 - 108,0				42,5	AF-6-102	4
	108		108	100	109,5 - 113,0	31,0	AF-5-108	6	42,5	AF-6-108	4
4	114,3	100	114	100	116,0 - 120,0	31,5	AF-5-114	6	43,0	AF-6-114	4
	133		133	125	135,0 - 139,0				44,0	AF-6-133 ⁽¹⁾	2
5	139,7	125			142,0 - 146,0	32,0	AF-5-140 ⁽¹⁾	4	44,5	AF-6-140 ⁽¹⁾	2
	160		159	150	162,0 - 167,0				45,0	AF-6-160 ⁽¹⁾	2

- ⁽¹⁾ Tube Length: 1m only
- Length tolerance: ± 1,5%
- Thickness tolerance: AF5-tubes ± 2,5 mm; AF6- tubes ± 3,0 mm
- For slitted tubes delivery quoted on request.

AF/Armaflex®

AF/ARMAFLEX Selfseal Tubes



2m length, tube with self adhesive strips, colour black, DIN 4102-B1 - (non-readily ignitable)

Copper pipe CU			Iron & steel pipe FE		ID min/max mm	AF1 Insulation Thickness 8,0 mm - 9,5 mm			AF2 Insulation Thickness 11 mm - 14,5 mm		
NB inch	Nom OD mm	Nom OD DN	Nom OD mm	Nom OD DN		mean thick- ness mm	Reference	m / carton	mean thick- ness mm	Reference	m / carton
15		1/4	13,5	8	16,0 -17,5	8,0	AF-1-015-A	192	11,0	AF-2-015-A	144
18	15	3/8	17,2	10	19,0 -20,5	8,0	AF-1-018-A	168	11,5	AF-2-018-A	120
22	20	1/2	21,3	15	23,0 -24,5	8,5	AF-1-022-A	132	12,0	AF-2-022-A	96
28	25	3/4	26,9	20	29,0 -30,5	8,5	AF-1-028-A	96	12,5	AF-2-028-A	80
35	32	1	33,7	25	36,0 -38,0	9,0	AF-1-035-A	70	13,0	AF-2-035-A	60
42	40	1 1/4	42,4	32	43,5 -45,5	9,0	AF-1-042-A	60	13,5	AF-2-042-A	40
48,3		1 1/2	48,3	40	49,5 - 51,5	9,0	AF-1-048-A	50	13,5	AF-2-048-A	40
54	50		54		55,0 -57,0	9,0	AF-1-054-A	40	13,5	AF-2-054-A	32
60,3		2	60,3	50	61,5 -63,5	9,0	AF-1-060-A	36	14,0	AF-2-060-A	32
76,1	65	2 1/2	76,1	65	77,0 -79,5	9,5	AF-1-076-A	24	14,0	AF-2-076-A	28
88,9	80	3	88,9	80	90,5 -93,5	9,5	AF-1-089-A	20	14,5	AF-2-089-A	20

Copper pipe CU			Iron & steel pipe FE		ID min/max mm	AF3 Insulation Thickness 13,5 mm - 17,5 mm			AF4 Insulation Thickness 17 mm - 22,5 mm		
NB inch	Nom OD mm	Nom OD DN	Nom OD mm	Nom OD DN		mean thick- ness mm	Reference	m / carton	mean thick- ness mm	Reference	m / carton
15		1/4	13,5	8	16,0 -17,5	13,5	AF-3-015-A	108	17,0	AF-4-0150-A	90
18	15	3/8	17,2	10	19,0 -20,5	14,0	AF-3-018-A	96	17,5	AF-4-018-A	72
22	20	1/2	21,3	15	23,0 -24,5	14,5	AF-3-022-A	84	18,0	AF-4-022-A	64
28	25	3/4	26,9	20	29,0 -30,5	15,5	AF-3-028-A	60	19,0	AF-4-028-A	50
35	32	1	33,7	25	36,0 -38,0	16,0	AF-3-035-A	50	19,5	AF-4-035-A	40
42	40	1 1/4	42,4	32	43,5 -45,5	16,5	AF-3-042-A	40	20,5	AF-4-042-A	32
48,3		1 1/2	48,3	40	49,5 - 51,5	16,5	AF-3-048-A	32	21,0	AF-4-048-A	24
54	50		54		55,0 -57,0	17,0	AF-3-054-A	24	21,0	AF-4-054-A	24
60,3		2	60,3	50	61,5 -63,5	17,5	AF-3-060-A	24	21,5	AF-4-060-A	20
76,1	65	2 1/2	76,1	65	77,0 -79,5	17,5	AF-3-076-A	16	22,0	AF-4-076-A	16
88,9	80	3	88,9	80	90,5 -93,5	17,5	AF-3-089-A	16	22,5	AF-4-089-A	12

Copper pipe CU			Iron & steel pipe FE		ID min/max mm	AF6 Insulation Thickness 32,0 mm - 45,0 mm		
NB inch	Nom OD mm	Nom OD DN	Nom OD mm	Nom OD DN		mean thick- ness mm	Reference	m / carton
22	20	1/2	21,3	15	23,0 -24,5	33,5	AF-6-022-A	32
28	25	3/4	26,9	20	29,0 -30,5	35,0	AF-6-028-A	24
35	32	1	33,7	25	36,0 -38,0	35,0	AF-6-035-A	22
42	40	1 1/4	42,4	32	43,5 -45,5	36,5	AF-6-042-A	16
48,3		1 1/2	48,3	40	49,5 - 51,5	37,5	AF-6-048-A	12
54	50		54		55,0 -57,0	38,0	AF-6-054-A	12
60,3		2	60,3	50	61,5 -63,5	39,0	AF-6-060-A	10

- Length tolerance: ± 1,5%
- Thickness tolerance: AF1-tubes & AF2-tubes ± 1,0 mm; AF3-tubes & AF4-tubes ± 1,5 mm

AF/ARMAFLEX Coils



Colour black, DIN 4102-B1 - (non-readily ignitable)

Copper pipe CU			Iron & steel pipe FE		ID min/max mm	AF1 Insulation Thickness 7,0 mm - 8,5 mm			AF2 Insulation Thickness 9,5 mm - 12,5 mm		
NB inch	Nom OD mm	Nom OD DN	Nom OD mm	Nom OD DN		mean thick- ness mm	Reference	m / carton	mean thick- ness mm	Reference	m / carton
			6	4	7,0 - 8,5	7,0	AF-1-006/E	90	9,5	AF-2-006/E	60
			8	6	9,0 - 10,5	7,0	AF-1-008/E	80	10,0	AF-2-008/E	55
1/8	10,2	6	10	8	11,0 - 12,5	7,5	AF-1-010/E	60	11,0	AF-2-010/E	35
			12	10	13,0 - 14,5	7,5	AF-1-012/E	50	11,0	AF-2-012/E	32
1/4	13,5	8	15		16,0 - 17,5	8,0	AF-1-015/E	40	11,0	AF-2-015/E	32
3/8	17,2	10	18	15	19,0 - 20,5	8,0	AF-1-018/E	35	11,5	AF-2-018/E	30
1/2	21,3	15	22	20	23,0 - 24,5	8,5	AF-1-022/E	30	12,0	AF-2-022/E	26
3/4	26,9	20	28	25	29,0 - 30,5	8,5	AF-1-028/E	28	12,5	AF-2-028/E	20

- Length tolerance: $\pm 1,5\%$
- Thickness tolerance: AF1-tubes & AF2-tubes $\pm 1,0$ mm

AF/ARMAFLEX Flat Sheet & Flat Sheets self-adhesive



Size: 2,0 x 0,5 m, Colour black, skin both sides, B - s3 - d0

Sheets			Sheets self-adhesive (with self-adhesive backing)		
Reference	Thickness mm	m ² / carton	Reference	Thickness mm	m ² / carton
AF-10MM	10	13	AF-10MM/A	10	13
AF-13MM	13	9	AF-13MM/A	13	9
AF-16MM	16	8	AF-16MM/A	16	8
AF-19MM	19	7	AF-19MM/A	19	7
AF-25MM	25	5	AF-25MM/A	25	5
AF-32MM	32	4	AF-32MM/A	32	4

AF/ARMAFLEX Continuous Sheet & Continuous Sheet self-adhesive



Colour black, skin both sides, B - s3 - d0

Continous sheet				Continous sheet self-adhesive (with self-adhesive backing)			
Reference	Thickness mm	Length m	m ² / carton	Reference	Thickness mm	Length m	m ² / carton
AF-10MM/E	10	10	10	AF-10MM/EA	10	10	10
AF-13MM/E	13	8	8	AF-13MM/EA	13	8	8
AF-16MM/E	16	7	7	AF-16MM/EA	16	7	7
AF-19MM/E	19	6	6	AF-19MM/EA	19	6	6
AF-25MM/E	25	4	4	AF-25MM/EA	25	4	4
AF-32MM/E	32	3	3	AF-32MM/EA	32	3	3

- Length tolerance: $\pm 1,5\%$
- Thickness tolerance: $\pm 1,0$ mm
- (3) Delivery quoted on request

AF/ARMAFLEX B2- Flat Sheet - Normally ignitable



Size: 2,0 x 0,5 m, Colour black, skin both sides, DIN 4102-B2 (Normally ignitable)

Reference	Thickness mm	m ² / carton
AF-50MM-B2	50	3

AF/ARMAFLEX B2- Continuous Sheet - Normally ignitable



Size: 2,0 x 0,5 m, Colour black, skin both sides, DIN 4102-B2 (Normally ignitable)

Reference	Thickness mm	m ² / carton
AF-50MM-B2/E-B2	50	3

- Length tolerance: ± 1,5%
- Thickness tolerance: General ±1,0 mm; AF32MM & AF50MM ± 2 mm

AF/ARMAFLEX B1-Strips, self-adhesive



Colour black, DIN 4102-B1 - (non-readily ignitable)

Reference	Length m	Width mm	Thickness mm	rolls / carton
AF-10MM/E-S/50	10	50	10	20
AF-10MM/E-S/75	10	75	10	13
AF-10MM/E-S/100	10	100	10	10
AF-13MM/E-S/50	8	50	13	20
AF-13MM/E-S/75	8	75	13	13
AF-13MM/E-S/100	8	100	13	10
AF-19MM/E-S/50	6	50	19	20
AF-19MM/E-S/75	6	75	19	13
AF-19MM/E-S/100	6	100	19	10

AF/ARMAFLEX Tape, self-adhesive



Colour black

Reference	Description	rolls / carton
AF-TAPE-MC	B2-AF/Armaflex tape self-adhesive (15 m x 50 mm x 3 mm)	12
AF-TAPE-MC/6	B1-AF/Armaflex tape self-adhesive (15 m x 50 mm x 3 mm)	6



