

Armaflex® LS

HIGHLY FLEXIBLE INSULATION WITH
REDUCED SMOKE DENSITY



- Faster and more cost-effective installation at low temperatures
- Complete range B/B_L-s2,d0
- Continuous quality control ensures reliability



THE NEW STANDARD IN B_L-S2 FLEXIBILITY

With ArmaFlex LS tubes you can keep your cool when the thermometer drops. Typical B_L-s2,d0 products tend to lose their flexibility at low temperatures, whereas the new ArmaFlex LS stays flexible – even at +5 °C. Comparative tests have shown that ArmaFlex is faster and more costefficient to install than mineral fibre and rigid foam products.

Benefit from the new s2 flexibility.



COMMITTED TO EXCELLENCE

Every year, Armacell invests a significant single digit million euro amount in conducting fire tests. Armacell's R&D activities focus on developing new and innovative insulation solutions and on continuously improving certified product performance. State-of-the-art product testing centres closely monitor product performances in-house on an ongoing basis. Armacell's European fire test laboratory alone annually undertakes around 5,000 fire tests.

Install it, trust it.



RELIABILITY FIRST

In building fires, smoke spreads rapidly, reducing visibility and blocking escape and rescue routes. The new ArmaFlex LS tubes release 50% less smoke than common flexible elastomeric foam tubes allowing occupants more time to escape and permitting rescue teams to enter effectively. ArmaFlex Low Smoke can extend evacuation time in your customers' premises.

Technical Data - Armaflex LS [Upgrade]

Brief description	Flexible elastomeric foam with low smoke density and a closed-cell material structure
Material type	Factory made flexible elastomeric foam (FEF) according to EN 14304.
Colour	black
Applications	Insulation / protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges etc.) of air-conditioning / refrigeration and process equipment to prevent condensation and save energy.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP

Property	Value/Assessment	Test ¹	Special Remark	
Temperature Range				
Temperature Range	max. service temperature	+ 110 °C	(+ 85 °C if sheet or tape is glued to the object with its whole surface.) EU 5861 Tested acc. to EN 14706, EN 14707 and EN 14304	
	min. service temperature ¹	-50 °C		
Thermal Conductivity				
Thermal Conductivity	ϑ_m	+/-0 °C	EU 5861 Declared acc. to EN ISO 13787 Tested acc. to EN 12667 EN ISO 8497	
	Tubes 6 - 32 mm	$\lambda \leq 0,037$ W/(m · K)		$[37 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
	Sheets 3-32 mm, tape	$\lambda \leq 0,037$ W/(m · K)		$[37 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$
Water vapour diffusion resistance				
Water vapour diffusion resistance	Tubes and sheets	$\mu \geq 7.000$	EU 5861 Tested acc. to EN 12086 and EN 13469	
Fire performance				
Reaction to fire	Tubes	B _L -s2,d0	EU 5861 EU 5805 Classified acc. to EN 13501-1 Tested acc. to EN 13823 EN ISO 11925-2	
	Sheets	B-s2,d0		
	Tubes / sheets with Armafix AF pipe hanger	B _L -s2,d0		
	Tape	B-s3,d0		
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames, low smoke development			
Other technical features				
Dimensions and tolerances	In accordance with EN 14304, table 1		EU 5861 Tested acc. to EN 822, EN 823, EN 13467	
UV resistance ²	Protection against UV-radiation is necessary.			
Storage & Shelf life	Self-adhesive tapes: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

1. For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

2. If Armaflex is applied under UV-radiation the material must be protected within 3 days with a covering.

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Installation instructions are available in our Armaflex installation manual. Please consult our Customer Service Center before insulating stainless steels.

Armaflex LS [Upgrade] tubes



Length 2,0 , Color black

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness		13,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
6	LS-09X006-U	272	LS-13X006-U ●	180
8	LS-09X008-U ●	252	-	-
10	LS-09X010-U	240	LS-13X010-U	164
12	LS-09X012-U ●	210	LS-13X012-U ●	148
15	LS-09X015-U	184	LS-13X015-U	116
18	LS-09X018-U	156	LS-13X018-U	100
20	LS-09X020-U ●	132	LS-13X020-U ●	100
22	LS-09X022-U	132	LS-13X022-U	96
25	LS-09X025-U ●	84	LS-13X025-U ●	84
28	LS-09X028-U	80	LS-13X028-U	76
30	LS-09X030-U ●	76	LS-13X030-U ●	68
32	LS-09X032-U ●	72	LS-13X032-U ●	60
35	LS-09X035-U	64	LS-13X035-U	60
40	LS-09X040-U ●	60	LS-13X040-U ●	50
42	LS-09X042-U ●	60	LS-13X042-U	50
48	LS-09X048-U ●	40	LS-13X048-U ●	42
50	LS-09X050-U ●	40	LS-13X050-U ●	38
54	LS-09X054-U ●	40	LS-13X054-U	38
60	LS-09X060-U ●	36	LS-13X060-U ●	32
64	LS-09X064-U ●	32	LS-13X064-U	30
70	LS-09X070-U ●	28	LS-13X070-U ●	28
76	LS-09X076-U ●	28	LS-13X076-U	28
80	LS-09X080-U ●	24	LS-13X080-U ●	20
89	LS-09X089-U ●	24	LS-13X089-U	20
102	LS-09X102-U ●	20	LS-13X102-U ●	20
108	LS-09X108-U ●	20	LS-13X108-U	20
110	LS-09X110-U ●	20	LS-13X110-U ●	20
114	LS-09X114-U ●	20	LS-13X114-U	20

Pipe max. Outside-Ø [mm]	19,0 mm insulation thickness		25,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
10	LS-19X010-U	92	LS-25X010-U ●	60
12	LS-19X012-U ●	84	LS-25X012-U ●	54
15	LS-19X015-U	72	LS-25X015-U ●	48
18	LS-19X018-U	60	LS-25X018-U ●	40
20	LS-19X020-U ●	58	-	-
22	LS-19X022-U	56	LS-25X022-U	40
25	LS-19X025-U ●	50	-	-
28	LS-19X028-U	48	LS-25X028-U	36
30	-	-	LS-25X030-U ●	30
32	LS-19X032-U ●	36	-	-
35	LS-19X035-U	36	LS-25X035-U	24
40	LS-19X040-U ●	32	-	-
42	LS-19X042-U	32	LS-25X042-U	24
48	LS-19X048-U	28	LS-25X048-U ●	20
50	LS-19X050-U ●	24	-	-
54	LS-19X054-U	24	LS-25X054-U	18
60	LS-19X060-U	24	LS-25X060-U	18
64	LS-19X064-U	20	LS-25X064-U ●	16
70	LS-19X070-U ●	18	-	-
76	LS-19X076-U	18	LS-25X076-U	12
80	LS-19X080-U ●	16	-	-
89	LS-19X089-U	16	LS-25X089-U	12
102	LS-19X102-U ●	16	LS-25X102-U ●	8
108	LS-19X108-U	16	LS-25X108-U ●	8
110	LS-19X110-U ●	14	-	-
114	LS-19X114-U	14	LS-25X114-U ●	10

Armaflex LS [Upgrade] tubes



Length 2,0 , Color black

Pipe max. Outside-Ø [mm]	32,0 mm insulation thickness			
	Code	m/carton		
12	LS-32X012-U ●	32	-	-
15	LS-32X015-U ●	32	-	-
18	LS-32X018-U ●	32	-	-
22	LS-32X022-U ●	24	-	-
28	LS-32X028-U ●	24	-	-
32	LS-32X032-U ●	18	-	-
35	LS-32X035-U	18	-	-
40	LS-32X040-U ●	18	-	-
42	LS-32X042-U ●	18	-	-
48	LS-32X048-U ●	18	-	-
50	LS-32X050-U ●	12	-	-
54	LS-32X054-U ●	12	-	-
60	LS-32X060-U ●	10	-	-
64	LS-32X064-U ●	10	-	-
70	LS-32X070-U ●	10	-	-
76	LS-32X076-U ●	10	-	-
89	LS-32X089-U	10	-	-
102	LS-32X102-U ●	6	-	-
108	LS-32X108-U ●	6	-	-
114	LS-32X114-U ●	8	-	-

Length tolerance for tubes

±1,5 %

Thickness tolerance

≤ 8 mm: ±1,0 mm
 9 - 18 mm: ±1,5 mm
 19 - 31 mm: ±2,5 mm
 > 31 mm: ±3,0 mm

● Item not in stock. Delivery on request. [MTO]

Armaflex LS [Upgrade] sheets endless



Width 1,0 m, Color black

Sheets endless			
Code	Insulation thickness [mm]	Roll length [m]	m ² /carton
LS-09-99/E	9,0	10	10
LS-13-99/E	13,0	8	8
LS-19-99/E	19,0	6	6
LS-25-99/E	25,0	4	4
LS-32-99/E	32,0	3	3

Length tolerance for sheets

±1,5 %

Thickness tolerance for sheets

≤ 6 mm: ±1,0 mm
 7 - 19 mm: ±1,5 mm
 > 19 mm: ±2,0 mm

Armaflex LS [Upgrade] sheets endless self-adhesive



Width 1,0 m, Color black

Sheets endless self-adhesive			
Code	Insulation thickness [mm]	Roll length [m]	m ² /carton
LS-09-99/EA	9,0	10	10
LS-13-99/EA	13,0	8	8
LS-19-99/EA	19,0	6	6
LS-25-99/EA	25,0	4	4
LS-32-99/EA	32,0	3	3

Length tolerance for sheets

±1,5 %

Thickness tolerance for sheets

≤ 6 mm: ±1,0 mm
 7 - 19 mm: ±1,5 mm
 > 19 mm: ±2,0 mm

Armaflex LS [Upgrade] tapes self-adhesive



Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
XG-TAPE	50,0	15	3	12