

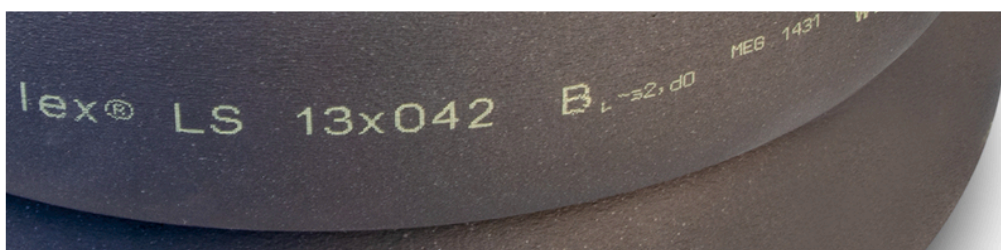
INSTALL IT. TRUST IT.

# 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

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 **armacell**<sup>®</sup>  
ArmaFlex<sup>®</sup>

INSTALL IT. TRUST IT.

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# ArmaFlex LS



## // The New Standard in B<sub>L</sub>-s2 Flexibility

With ArmaFlex LS tubes you can keep your cool when the thermometer drops. Typical B<sub>L</sub>-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 cost-efficient 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

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. Elastomeric foam based on synthetic rubber.
Product colour range	Black
Applications	Insulation/protection for pipes, air ducts, vessels (including elbows, fittings, flanges, etc.) of air-conditioning/refrigeration and process equipment to prevent condensation and save energy.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 525. Please refer to the ArmaFlex application manual for advice. For further information please contact our Customer Service Centre.

Property	Value / Assessment	Standard / Test method
<b>Temperature range</b>		
Service temperature <sup>1</sup>	Min. °C	Max. °C
	-50	110
	Remarks	+85 °C if sheet or tape is glued to the object with its whole surface +85 °C for tapes
<b>Thermal conductivity</b>		
Declared thermal conductivity	Øm	0 °C
	$\lambda d \leq [W/(m \cdot K)]$	0.037
	Formula	$\lambda d = [37 + 0,1 \cdot \varnothing m + 0,0008 \cdot \varnothing m^2]/1000$
<b>Fire Performance and Approvals</b>		
Reaction to fire	Tubes: B(L)-s2,d0 Sheets, Tape: B-s2,d0 Tubes/sheets with ArmaFix AF pipe hanger: B(L)-s2,d0	EN 13501-1, EN ISO 11925-2, EN 13823
<b>Fire performance</b>		
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames, low smoke development	
<b>Physical attributes</b>		
Dimensions and tolerances	in accordance with EN 14304, table 1	EN 822, EN 823, EN 13467
<b>Weather and UV resistance</b>		
UV resistance <sup>2</sup>	Protection against UV-radiation is necessary. [See Technical Bulletin no. 142.]	
<b>Health and environment</b>		
Volatile organic compounds (VOC) content	Fulfills all VOC requirements (French, Italian, Belgian, German AgBB, Blauer Engel and Eurofins Indoor Air Comfort GOLD).	
Green building assessment	Meets the sustainable construction requirements for LEED v4.1, BREEAM international and WELL v2.	
Additional features	SCCP, MCCP-free	
<b>Other technical features</b>		
Shelf life	Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes: 1 year	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

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

<sup>2</sup> If ArmaFlex is used outdoors or in applications under UV radiation, it should be protected with a covering such as Arma-Chek within 3 days of installation.

Tube – standard. Black

9 mm				9 mm				13 mm			
Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]
8	LS-06X008-U	7612207456127	400 m	6	LS-09X006-U	7612207455816	272 m	6	LS-13X006-U	7612207456158	180 m
12	LS-06X012-U	7612207456059	312 m	10	LS-09X010-U	7612207455830	240 m	10	LS-13X010-U	7612207456202	164 m
15	LS-06X015-U	7612207456042	260 m	12	LS-09X012-U	7612207455854	210 m	12	LS-13X012-U	7612207456288	148 m
18	LS-06X018-U	7612207456073	192 m	15	LS-09X015-U	7612207455915	184 m	15	LS-13X015-U	7612207456301	116 m
22	LS-06X022-U	7612207456028	156 m	18	LS-09X018-U	7612207455892	156 m	18	LS-13X018-U	7612207456325	100 m
-	-	-	-	22	LS-09X022-U	7612207456387	132 m	20	LS-13X020-U	7612207456349	100 m
-	-	-	-	28	LS-09X028-U	7612207456417	80 m	22	LS-13X022-U	7612207456363	96 m
-	-	-	-	30	LS-09X030-U	7612207456431	76 m	25	LS-13X025-U	7612207456356	84 m
-	-	-	-	32	LS-09X032-U	7612207456448	72 m	28	LS-13X028-U	7612207456530	76 m
-	-	-	-	35	LS-09X035-U	7612207456455	64 m	30	LS-13X030-U	7612207456554	68 m
-	-	-	-	42	LS-09X042-U	7612207456479	60 m	32	LS-13X032-U	7612207456585	60 m
-	-	-	-	54	LS-09X054-U	7612207456509	40 m	35	LS-13X035-U	7612207456592	60 m
-	-	-	-	60	LS-09X060-U	7612207456516	36 m	42	LS-13X042-U	7612207456615	50 m
-	-	-	-	76	LS-09X076-U	7612207456189	28 m	48	LS-13X048-U	7612207456677	42 m
-	-	-	-	89	LS-09X089-U	7612207456233	24 m	54	LS-13X054-U	7612207456707	38 m
-	-	-	-	-	-	-	-	60	LS-13X060-U	7612207456714	32 m
-	-	-	-	-	-	-	-	64	LS-13X064-U	7612207456721	30 m
-	-	-	-	-	-	-	-	76	LS-13X076-U	7612207456561	28 m
-	-	-	-	-	-	-	-	89	LS-13X089-U	7612207456639	20 m
-	-	-	-	-	-	-	-	108	LS-13X108-U	7612207456653	20 m
-	-	-	-	-	-	-	-	114	LS-13X114-U	7612207456691	20 m

Tube – standard. Black

19 mm				25 mm				32 mm			
Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]
10	LS-19X010-U	7612207456745	92 m	15	LS-25X015-U	7612207457728	48 m	18	LS-32X018-U	7612207457483	32 m
12	LS-19X012-U	7612207456752	84 m	18	LS-25X018-U	7612207457735	40 m	22	LS-32X022-U	7612207457490	24 m

**Tube – standard. Black**

19 mm				25 mm				32 mm			
Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]
15	LS-19X015-U	7612207456769	72 m	22	LS-25X022-U	7612207457759	40 m	28	LS-32X028-U	7612207457513	24 m
18	LS-19X018-U	7612207456851	60 m	28	LS-25X028-U	7612207457247	36 m	32	LS-32X032-U	7612207457520	18 m
20	LS-19X020-U	7612207456776	58 m	35	LS-25X035-U	7612207457285	24 m	35	LS-32X035-U	7612207457506	18 m
22	LS-19X022-U	7612207456783	56 m	42	LS-25X042-U	7612207457308	24 m	40	LS-32X040-U	7612207457544	18 m
25	LS-19X025-U	7612207456806	50 m	48	LS-25X048-U	7612207457322	20 m	42	LS-32X042-U	7612207457551	18 m
28	LS-19X028-U	7612207456813	48 m	54	LS-25X054-U	7612207457339	18 m	48	LS-32X048-U	7612207457568	18 m
32	LS-19X032-U	7612207456837	36 m	60	LS-25X060-U	7612207457360	18 m	54	LS-32X054-U	7612207457605	12 m
35	LS-19X035-U	7612207456875	36 m	64	LS-25X064-U	7612207457384	16 m	60	LS-32X060-U	7612207457612	10 m
42	LS-19X042-U	7612207457063	32 m	76	LS-25X076-U	7612207457391	12 m	64	LS-32X064-U	7612207457629	10 m
48	LS-19X048-U	7612207457056	28 m	89	LS-25X089-U	7612207457414	12 m	76	LS-32X076-U	7612207457681	10 m
50	LS-19X050-U	7612207457087	24 m	108	LS-25X108-U	7612207457445	10 m	89	LS-32X089-U	7612207457698	10 m
54	LS-19X054-U	7612207457117	24 m	114	LS-25X114-U	7612207457452	10 m	108	LS-32X108-U	7612207457773	6 m
60	LS-19X060-U	7612207457094	24 m	-	-	-	-	114	LS-32X114-U	7612207457261	6 m
64	LS-19X064-U	7612207457148	20 m	-	-	-	-	-	-	-	-
70	LS-19X070-U	7612207457155	18 m	-	-	-	-	-	-	-	-
76	LS-19X076-U	7612207457049	18 m	-	-	-	-	-	-	-	-
89	LS-19X089-U	7612207457575	16 m	-	-	-	-	-	-	-	-
108	LS-19X108-U	7612207457643	16 m	-	-	-	-	-	-	-	-
114	LS-19X114-U	7612207457667	14 m	-	-	-	-	-	-	-	-

**Tube – self-seal. Black**

Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]
15	LS-13X015-U-A	7612207457018	116 m	18	LS-19X018-U-A	7612207456868	60 m	28	LS-25X028-U-A	7612207457254	36 m
18	LS-13X018-U-A	7612207456998	100 m	22	LS-19X022-U-A	7612207456790	56 m	54	LS-25X054-U-A	7612207457353	18 m
22	LS-13X022-U-A	7612207457001	96 m	28	LS-19X028-U-A	7612207456820	48 m	89	LS-25X089-U-A	7612207457421	12 m
28	LS-13X028-U-A	7612207456929	76 m	35	LS-19X035-U-A	7612207457025	36 m	-	-	-	-
35	LS-13X035-U-A	7612207456936	60 m	42	LS-19X042-U-A	7612207457100	32 m	-	-	-	-

**Tube – self-seal. Black**

Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]	Pipe Ø [mm]	Item	EAN	Primary content [metric]
42	LS-13X042-U-A	7612207456943	50 m	48	LS-19X048-U-A	7612207457070	28 m	-	-	-	-
48	LS-13X048-U-A	7612207456967	42 m	54	LS-19X054-U-A	7612207457124	24 m	-	-	-	-
54	LS-13X054-U-A	7612207456974	38 m	89	LS-19X089-U-A	7612207457582	16 m	-	-	-	-
89	LS-13X089-U-A	7612207456950	20 m	-	-	-	-	-	-	-	-

**Roll - standard. Black**

Item	Insulation thickness [mm]	Width [mm]	Length [m]	EAN	Primary content [metric]
LS-06-99/E	6	1,000	15	7612207403824	15 m <sup>2</sup>
LS-09-99/E	9	1,000	10	7612207403794	10 m <sup>2</sup>
LS-13-99/E	13	1,000	8	7612207403800	8 m <sup>2</sup>
LS-19-99/E	19	1,000	6	7612207403817	6 m <sup>2</sup>
LS-25-99/E	25	1,000	4	7612207403787	4 m <sup>2</sup>
LS-26-99/E	26	1,000	4	7612207495577	9.84 m <sup>2</sup>
LS-32-99/E	32	1,000	3	7612207403770	3 m <sup>2</sup>

**Roll - standard self-adhesive. Black**

Item	Insulation thickness [mm]	Width [mm]	Length [m]	EAN	Primary content [metric]
LS-09-99/EA	9	1,000	10	7612207404142	10 m
LS-13-99/EA	13	1,000	8	7612207404104	8 m <sup>2</sup>
LS-19-99/EA	19	1,000	6	7612207404135	6 m <sup>2</sup>
LS-25-99/EA	25	1,000	4	7612207404111	4 m <sup>2</sup>
LS-32-99/EA	32	1,000	3	7612207404128	3 m <sup>2</sup>

**Tape – self-adhesive. Black**

Item	Thickness [mm]	Width [mm]	Length [m]	EAN	Primary content [pieces]
LS-TAPE-MC	3	50	15	7612207464160	12 roll

# OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



## **SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7**

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

## **DEDICATED LOCAL CONTACTS**

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

## **DIGITAL INFORMATION FLOWS**

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.



## OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

## WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES\*

### OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

### LABELLING

- Extra label for transport instructions

### EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service\* by which pallets can be handed at Armacell collection points.

\* Please contact your local Customer Service Centre to see which of these services apply to your country.



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## ABOUT ARMACELL

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As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency, making a difference around the world every day. With more than 3200 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.



For more information, please visit:  
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