



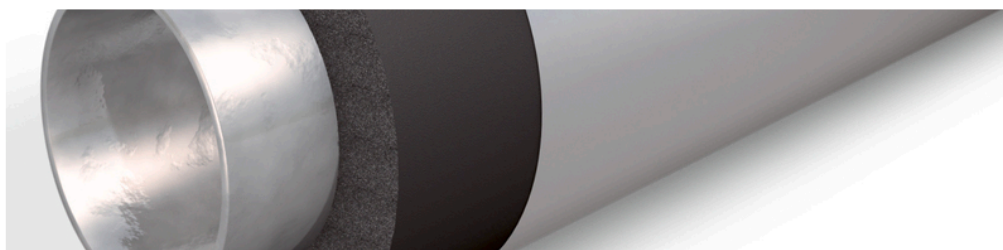
INSTALL IT. SAFEGUARD YOUR  
EQUIPMENT.

# Arma-Chek Silver

The brilliant precovered ArmaFlex  
insulation designed for fast installation,  
durability and easy cleaning

- // 2-in-1 precovered system, saves installation time
- // Easy to clean aesthetic surface in metallic look
- // Strong and resistant surface
- // Good chemical resistance

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 **armacell**<sup>®</sup>  
ArmaClad<sup>™</sup>

## TECHNICAL DATA - ARMA-CHEK SILVER

Brief description	Arma-Chek Silver is a covering system with a double layer laminate of aluminium, coated with a special UV protection and a PVC backing. Enclosing an Armaflex substrate, the Arma-Chek Silver jacketing is highly puncture and tear resistant as well as flame retardant. Arma-Chek Silver can be used for insulation and protection of HVAC and refrigeration systems inside or outside.
Material type	Highly flexible, closed-cell elastomeric foam material based on synthetic rubber. Covering: double layer of aluminium laminate, coated with a special UV protection and a PVC backing.
Product colour range	Silver (Covering)
Special features	UV resistance testing regarding of these materials showed excellent results. When used on outdoor applications, the materials showed very good durability even under UV exposure. However, due to the unpredictable nature of outdoor conditions in the whole variety of thinkable installations, there might be occasional weathering influences on the consistence of the material, which cannot be tested in advance. Therefore, installations in extreme environments (regions of extreme weather conditions like high mountains etc.) cannot be recommended. In case of doubt, please contact our Customer Service.
Product range	Arma-Chek Silver is available in a range of pre-insulated tubes & sheets, as well as single covering including pre-insulated bends and t-pieces.
Applications	Insulation and protection of pipes, ducts, valves and vessels of refrigeration and air conditioning equipment, clean room environments, food industries etc.
Installation	The ArmaFlex and ArmaClad Arma-Chek installation manuals should be consulted before assembly. We offer special installation courses for the application of ArmaClad Arma-Chek.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a> (Armaflex substrate)

Property	Value / Assessment	Standard / Test method
<b>Temperature range</b>		
Service temperature <sup>1,2</sup>	Min. °C	Max. °C
	-50	110
	Remarks	+85 °C if sheet or tape is glued to the object with its whole surface
<b>Thermal conductivity</b>		
Remarks	Depends on ArmaFlex substrate.	EN ISO 13787, EN 12667, EN ISO 8497
<b>Fire Performance and Approvals</b>		
Reaction to fire	Arma-Chek Silver (AF) tubes D(L)-s3,d0 Arma-Chek Silver (AF) sheets 13 - 25 mm D-s3,d0 Arma-Chek Silver (AF) sheets 32 - 50 mm D-s3,d0 Arma-Chek Silver (ACE) tubes and sheets E	EN 13823, EN ISO 11925-2
<b>Physical attributes</b>		
Thickness	approx. 230 µm (covering)	EN 22286
Dimensions and tolerances	In acc. with EN 14304, Table 1 (ArmaFlex substrate)	EN 822, EN 823, EN 13467
<b>Mechanical properties</b>		
Tear strength	MD 70 N CD 28 N	EN ISO 527-3
Resistance to mechanical impact	Good puncture and tear resistance.	
<b>Weather and UV resistance</b>		
UV resistance <sup>3</sup>	Excellent	EN ISO 4892-2
<b>Health and environment</b>		
Health aspects	Dust- and fibre-free.	
<b>Other technical features</b>		
Shelf life	Tape, sheets, tubes, self-adhesive: 1 year	

Property	Value / Assessment	Standard / Test method
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>When there are fluctuations in temperature, the surface may wrinkle slightly, as elastomeric products expand and contract in these circumstances. However, these superficial changes do not have any impact on the performance of the material. The wrinkles usually disappear as soon as the plant is heated to its original operating temperature.

<sup>2</sup>For temperatures below -50 °C or above +110°C please contact our Customer Service Centre to request for the corresponding technical information.

<sup>3</sup>In outdoor applications the colour may fade. This does not have any impact on the functionality of the covering or the insulation material.

**Tube – precovered and self-seal. Silver (Covering)**

**AF-2 (insulation thickness: 11.5mm - 16.0mm)**

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	Content [metric]
15	AFSI-2-015	16,00	17,50	11,5	7612207397901	65 m
18	AFSI-2-018	19,00	20,50	11,5	7612207339383	60 m
22	AFSI-2-022	23,00	24,50	12	7612207339390	50 m
28	AFSI-2-028	29,00	30,50	12,5	7612207339406	42 m
35	AFSI-2-035	36,00	38,00	13	7612207339413	31 m
42	AFSI-2-042	43,50	45,50	13,5	7612207339420	24 m
48	AFSI-2-048	49,50	51,50	13,5	7612207339437	22 m
54	AFSI-2-054	55,00	57,00	13,5	7612207339444	18 m
60	AFSI-2-060	61,50	63,50	14	7612207339451	16 m
64	AFSI-2-064	65,00	67,50	14	7612207339468	15 m
76	AFSI-2-076	77,00	79,50	14	7612207339475	14 m
89	AFSI-2-089	90,50	93,50	14,5	7612207339482	11 m
114	AFSI-2-114	116,00	120,00	15	7612207339499	8 m
140	AFSI-2-140	142,00	146,00	15,5	7612207339505	4 m

**Other information**

**Thickness tolerance**                    <8mm: ±10mm  
    9 - 18mm: ±1.5mm  
    19 - 31mm: ±2.5mm  
    >31mm: ±3.0mm

**Length tolerance**                    ±1.5%

**Remarks**                                Some items have a self-adhesive seam achieved with a radial cut surface. Contact Armacell for more details.

**Tube – precovered and self-seal. Silver (Covering)**

**AF-4 (insulation thickness: 17.0mm - 25.0mm)**

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	Content [metric]
15	AFSI-4-015	16,00	17,50	17	7612207397765	44 m
18	AFSI-4-018	19,00	20,50	17,5	7612207397727	35 m
22	AFSI-4-022	23,00	24,50	18	7612207339543	30 m
28	AFSI-4-028	29,00	30,50	19	7612207339550	24 m
35	AFSI-4-035	36,00	38,00	19,5	7612207339567	18 m
42	AFSI-4-042	43,50	45,50	20,5	7612207339574	16 m
48	AFSI-4-048	49,50	51,50	21	7612207339581	12 m
54	AFSI-4-054	55,00	57,00	21	7612207339598	12 m
60	AFSI-4-060	61,50	63,50	21,5	7612207339604	10 m
64	AFSI-4-064	65,00	67,50	21,5	7612207339611	9 m
76	AFSI-4-076	77,00	79,50	22	7612207339628	8 m
89	AFSI-4-089	90,50	93,50	22,5	7612207339635	6 m
114	AFSI-4-114	116,00	120,00	23,5	7612207339642	5 m
140	AFSI-4-140	142,00	146,00	24,5	7612207339659	3 m
168	AFSI-4-168	170,00	176,00	25	7612207339666	2 m

**Other information**

Tube – precovered and self-seal. Silver (Covering)

AF-4 (insulation thickness: 17.0mm - 25.0mm)

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	Content [metric]
<b>Thickness tolerance</b>		<8mm: ±10mm 9 - 18mm: ±1.5mm 19 - 31mm: ±2.5mm >31mm: ±3.0mm				
<b>Length tolerance</b>		±1.5%				
<b>Remarks</b>		Some items have a self-adhesive seam achieved with a radial cut surface. Contact Armacell for more details.				

Tube – precovered and self-seal. Silver (Covering)

AF-5 (insulation thickness: 25.0mm - 33.0mm)

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	Content [metric]
18	AFSI-5-018	19,00	20,50	25	7612207339673	21 m
22	AFSI-5-022	23,00	24,50	25	7612207339680	18 m
28	AFSI-5-028	29,00	30,50	25	7612207339697	18 m
35	AFSI-5-035	36,00	38,00	27	7612207339703	12 m
42	AFSI-5-042	43,50	45,50	27	7612207339710	11 m
48	AFSI-5-048	49,50	51,50	27,5	7612207339727	8 m
54	AFSI-5-054	55,00	57,00	28,5	7612207339734	8 m
60	AFSI-5-060	61,50	63,50	29	7612207339741	6 m
64	AFSI-5-064	65,00	67,50	29	7612207339758	6 m
76	AFSI-5-076	77,00	79,50	30	7612207339765	5 m
89	AFSI-5-089	90,50	93,50	30,5	7612207339772	4 m
114	AFSI-5-114	116,00	120,00	31,5	7612207339789	3 m
140	AFSI-5-140	142,00	146,00	32	7612207339796	3 m
168	AFSI-5-168	170,00	176,00	33	7612207339802	2 m

Other information

<b>Thickness tolerance</b>	<8mm: ±10mm 9 - 18mm: ±1.5mm 19 - 31mm: ±2.5mm >31mm: ±3.0mm
<b>Length tolerance</b>	±1.5%
<b>Remarks</b>	Some items have a self-adhesive seam achieved with a radial cut surface. Contact Armacell for more details.

Covering. Silver. Covering without insulation

Item	Width [mm]	Length [m]	EAN	Content [quantity]	Content [metric]
ACH-SI25	1.040	25	7612207367133	2 roll	26 m <sup>2</sup>
ACH-SI25/100	100	25	7612207341867	4 roll	10 m <sup>2</sup>

Roll – standard precovered. Silver (Covering)

Item	Insulation thickness [mm]	Width [mm]	Length [m]	EAN	Content [metric]
AFSI-13MM/E	13	1.000	8	7612207339819	8 m <sup>2</sup>
AFSI-19MM/E	19	1.000	6	7612207339833	6 m <sup>2</sup>
AFSI-25MM/E	25	1.000	4	7612207339857	4 m <sup>2</sup>
AFSI-32MM/E	32	1.000	3	7612207339871	3 m <sup>2</sup>

Roll – standard precovered. Silver (Covering)

Item	Insulation thickness [mm]	Width [mm]	Length [m]	EAN	Content [metric]
SI-13-99/E	13	1.000	8	7612207355222	8 m <sup>2</sup>
SI-19-99/E	19	1.000	6	7612207355277	6 m <sup>2</sup>
SI-25-99/E	25	1.000	4	7612207355291	4 m <sup>2</sup>
SI-32-99/E	32	1.000	3	7612207355321	3 m <sup>2</sup>
SI-40-99/E	40	1.000	7	7612207355345	7 m <sup>2</sup>
SI-50-99/E	50	1.000	5	7612207355369	5 m <sup>2</sup>
<b>Other information</b>					
Thickness tolerance	≤ 6 mm: ±1,0 mm 7 -19 mm: ±1,5 mm > 19 mm: ±2,0 mm				
Length tolerance	+/- 1,5%				

Roll – standard precovered self-adhesive. Silver (Covering). AF/ArmaFlex

Item	Insulation thickness [mm]	Width [mm]	Length [m]	EAN	Content [metric]
AFSI-13MM/EA	13	1.000	8	7612207339826	8 m <sup>2</sup>
AFSI-19MM/EA	19	1.000	6	7612207339840	6 m <sup>2</sup>
AFSI-25MM/EA	25	1.000	4	7612207339864	4 m <sup>2</sup>
AFSI-32MM/EA	32	1.000	3	7612207339888	3 m <sup>2</sup>
SI-13-99/EA	13	1.000	8	7612207355239	8 m <sup>2</sup>
SI-19-99/EA	19	1.000	6	7612207355284	6 m <sup>2</sup>
SI-25-99/EA	25	1.000	4	7612207355307	4 m <sup>2</sup>
SI-32-99/EA	32	1.000	3	7612207355338	3 m <sup>2</sup>
SI-40-99/EA	40	1.000	7	7612207355352	7 m <sup>2</sup>
SI-50-99/EA	50	1.000	5	7612207355376	5 m <sup>2</sup>
<b>Other information</b>					
Thickness tolerance	≤ 6 mm: ±1,0 mm 7 -19 mm: ±1,5 mm > 19 mm: ±2,0 mm				
Length tolerance	+/- 1,5%				

Prefabricated part – 90° elbow. Silver. Elbow fitting (covering without insulation)

Outer diameter [mm]	Item	Content [quantity]
40	ACHB-040	1 piece
50	ACHB-050	1 piece
60	ACHB-060	1 piece
70	ACHB-070	1 piece
80	ACHB-080	1 piece
90	ACHB-090	1 piece
100	ACHB-100	1 piece
110	ACHB-110	1 piece
120	ACHB-120	1 piece
130	ACHB-130	1 piece
140	ACHB-140	1 piece
150	ACHB-150	1 piece

Prefabricated part – 90° elbow. Silver. Elbow fitting (covering without insulation)

Outer diameter [mm]	Item	Content [quantity]
160	ACHB-160	1 piece
170	ACHB-170	1 piece
180	ACHB-180	1 piece
190	ACHB-190	1 piece
200	ACHB-200	1 piece
210	ACHB-210	1 piece
220	ACHB-220	1 piece
230	ACHB-230	1 piece
240	ACHB-240	1 piece
250	ACHB-250	1 piece
260	ACHB-260	1 piece
270	ACHB-270	1 piece
280	ACHB-280	1 piece
290	ACHB-290	1 piece
300	ACHB-300	1 piece
310	ACHB-310	1 piece
320	ACHB-320	1 piece
330	ACHB-330	1 piece
340	ACHB-340	1 piece
350	ACHB-350	1 piece
360	ACHB-360	1 piece
370	ACHB-370	1 piece
380	ACHB-380	1 piece
390	ACHB-390	1 piece
400	ACHB-400	1 piece
<b>Other information</b>		
<b>Thickness tolerance</b>	AF-1, AF-2: ± 1.0 mm AF-3, AF-4: ± 1.5 mm AF-5: ± 2.5 mm AF-6: ± 3.0 mm	
<b>Remarks</b>	Other items can be made to order upon request.	

Prefabricated part – t-piece. Silver. T-piece fitting (covering without insulation)

Outer diameter [mm]	Item	Content [quantity]
52	ACHT-052	1 piece
57	ACHT-057	1 piece
61	ACHT-061	1 piece
67	ACHT-067	1 piece
73	ACHT-073	1 piece
82	ACHT-082	1 piece
88	ACHT-088	1 piece
93	ACHT-093	1 piece
100	ACHT-100	1 piece
102	ACHT-102	1 piece

Prefabricated part – t-piece. Silver. T-piece fitting (covering without insulation)

Outer diameter [mm]	Item	Content [quantity]
108	ACHT-108	1 piece
116	ACHT-116	1 piece
120	ACHT-120	1 piece
128	ACHT-128	1 piece
130	ACHT-130	1 piece
136	ACHT-136	1 piece
140	ACHT-140	1 piece
149	ACHT-149	1 piece
156	ACHT-156	1 piece
169	ACHT-169	1 piece
176	ACHT-176	1 piece
182	ACHT-182	1 piece
189	ACHT-189	1 piece
194	ACHT-194	1 piece
214	ACHT-214	1 piece
245	ACHT-245	1 piece
268	ACHT-268	1 piece

Other information

Thickness tolerance	AF-1, AF-2: $\pm 1,0$ mm AF-3, AF-4: $\pm 1,5$ mm AF-5: $\pm 2,5$ mm AF-6: $\pm 3,0$ mm
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Remarks	Other items can be made to order upon request.
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Tape – self-adhesive. Silver. Composite aluminium tape

Item	Description	Thickness [mm]	Width [mm]	Length [m]	Content [quantity]
ACH-PSATAPES-30	AL tape in width: 30mm, length: 25m, thickness: 0.08	0,08	30	25	10 roll
ACH-PSATAPES-50	AL tape in width: 50mm, length: 50m, thickness: 0.08	0,08	50	50	6 roll

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## ABOUT ARMACELL

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 3,300 employees and 25 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 acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



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