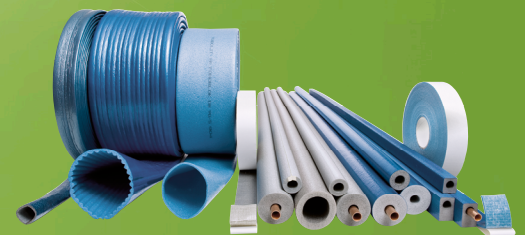
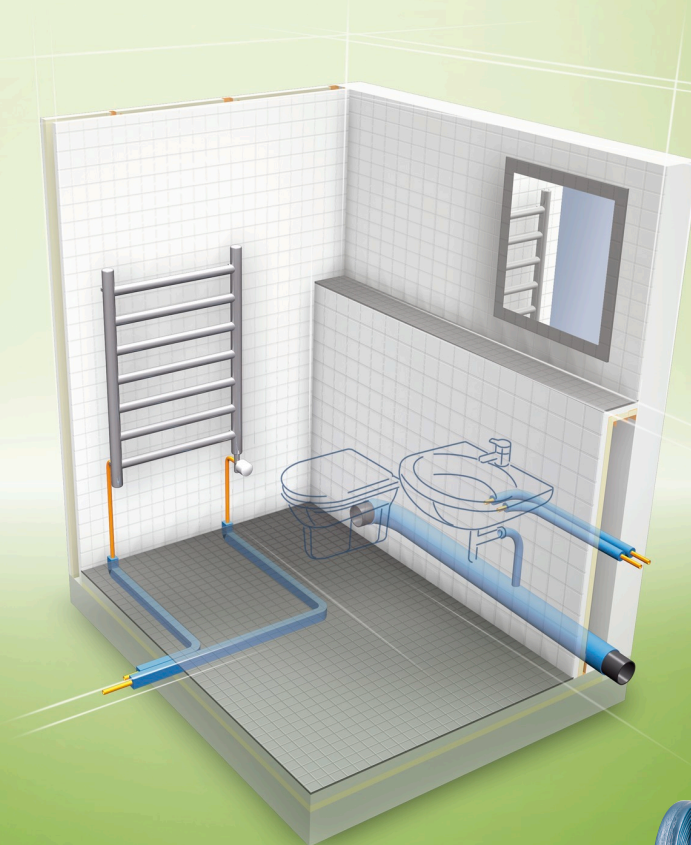


Tubolit®

THE COMPLETE POLYETHYLENE RANGE
FOR PLUMBERS



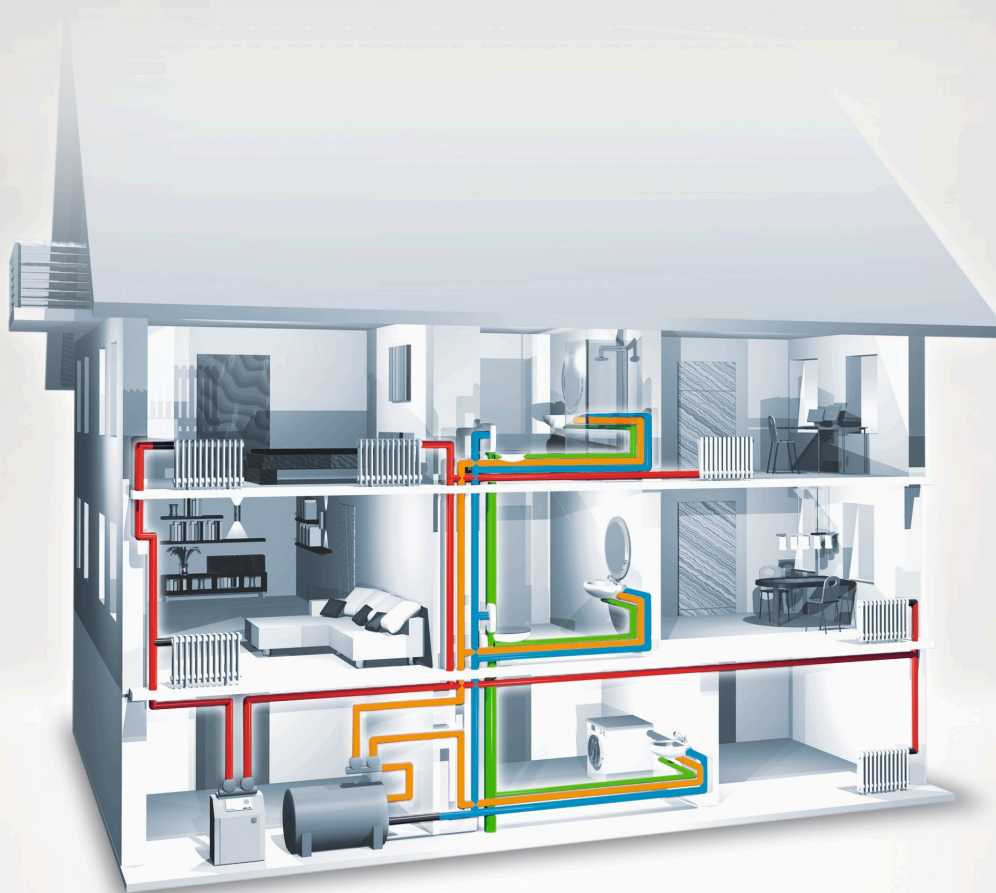
- Full range of PE thermal and acoustic insulation products
- Matching range for plastic pipe sizes
- Improved acoustic comfort
- Meets European energy regulations

- $\lambda_{40\text{ °C}} \leq 0,040 \text{ W}/(\text{m} \cdot \text{K})$
- Conforming to EnEV regulations
- Matching range for plastic pipe sizes

Tubolit®

Tubolit saves energy, improves acoustic comfort in buildings and protects pipes installed within the building shell. Tubolit is the most complete range of thermal, acoustical and protective insulation products for installations of heating, domestic hot and cold water and sewage pipes in both residential as well as public and commercial buildings.

See typical application areas below:



- cold water pipes
- domestic hot water pipes
- heating system pipes
- waste water pipes

Product	Type of installation				Additional Benefit / Requirement				
	Heating	Domestic hot water	Cold water pipes	Waste water	Extra protection	50% faster application	Noise reduction	Under plaster	Under floor
DG	•••	•••	••						
DG self-seal	•••	•••	••			✓			
DG-B1	•••	•••	••						
DG Plus	•••	•••	••						
S	•••	•••	••		✓		✓	✓	
S Plus			•••		✓		✓	✓	
DHS Quadra	•••				✓		✓		✓
AR Fonowave				•••	✓		✓		
AR Fonoblok				•••	✓		✓		

Technical Data - Tubolit DG

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses and noise on heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	grey
Material Special Information	Self-adhesive coating on tapes and self-seal coating on tubes: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil.
Applications	Insulation / protection of pipes (heating system pipes, domestic hot and cold water pipes) and other parts of heating and plumbing installations (incl. elbows, fittings, flanges, etc).
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with constant or almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. 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 + 100 °C (+ 85 °C for tapes)	EU 5673 EU 5681	Tested acc. to EN 14707 and EN 14313
	min. service temperature (as is usual in plumbing and heating installations)		
Thermal Conductivity			
Thermal Conductivity	ϑ_m 40 [°C] $\lambda =$	EU 5673 EU 5681	Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497
	Tubolit DG tubes 5 - 30 mm $\lambda \leq 0,040$ W/(m · K) $[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2]/1000$		
	Tubolit DG self-adhesive tape $\lambda \leq 0,045$ W/(m · K) $[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2]/1000$		
Fire performance			
Reaction to fire ¹	Tubolit DG standard tubes 5 - 30 mm E	EU 5673 EU 5681	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2
	Tubolit DG self-adhesive tape E		
Acoustic Performance			
Reduction of structure-borne sound transmission	Insulation effect ≤ 30 dB(A)	D 2762	Tested acc. to DIN 52219 and EN ISO 3822-1
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EU 5673 EU 5681	Tested acc. to EN 822 EN 823 EN 13467
Storage & Shelf life	Tapes self-adhesive and tubes self-seal: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

1. The reaction to fire classification is valid on metal surfaces.

*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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.

Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 adhesive and Clipse must be used to guarantee proper installation.

Technical Data - Tubolit DG B1

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses on heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	grey
Applications	Insulation / protection of pipes (heating system pipes, domestic hot and cold water pipes) and other parts of heating and plumbing installations (incl. elbows, fittings, flanges, etc).
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with constant or almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. 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	+ 100 °C	(+ 85 °C for tapes)
	min. service temperature		(as is usual in plumbing and heating installations)
Thermal Conductivity			
Thermal Conductivity	ϑ_m	40	[°C]
	Tubolit DG-B1	$\lambda \leq 0,040$	W/(m · K)
			$[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$
Fire performance			
Reaction to fire ¹	Tubes 5 - 30 mm		D _L -s2, d0
		EU 5672	Classified acc. to EN 13501-1 Tested acc. to EN 13823 and EN ISO 11925-2
Acoustic Performance			
Reduction of structure-borne sound transmission	Tubolit on steel water pipes		≤ 30 dB(A)
		D 2762	Tested acc. to DIN 52219 and EN ISO 3822-1
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2		
		EU 5672	Tested acc. to EN 822 EN 823 EN 13467

1. The reaction to fire classification is valid on metal surfaces.

*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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.
Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 adhesive and Clipse must be used to guarantee proper installation.

Technical Data - Tubolit DG Plus

Brief description	Flexible, closed-cell extruded insulation material with very low smoke development to reduce heat losses and noise on heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	grey
Applications	Insulation / protection of pipes (heating system pipes, domestic hot and cold water pipes), and other parts of heating and plumbing installations incl. elbows, fittings, flanges etc.)
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. 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 min. service temperature	+100 °C as is usual in plumbing and heating installations	
Thermal Conductivity			
Thermal Conductivity	ϑ_m 40 [°C] $\lambda \leq 0,040$ W/(m · K)	$\lambda = \frac{36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2}{1000}$	EU 5671 Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497
Fire performance			
Reaction to fire	From 6 mm to 25 mm self-adhesive tubes 13 mm 26 mm and 27 mm	B _L -s1,d0 B _L -s1,d0 C _L -s1,d0	EU 5671 Classified acc. to EN 13501-1 Tested acc. to EN 13823 and EN ISO 11925-2
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EU 5671	Tested acc. to EN 822 EN 823 EN 13467
Storage & Shelf life	self-adhesive tubes: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

1. The reaction to fire classification is valid on metal surfaces.
 2. Further documents such as test certificates, approvals and the like can be requested using the registration number given.
 3. ●: Official supervision by independent institutes and /or test authorities
 4. ○: Own in-factory quality monitoring
- *1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

Technical Data - Tubolit S

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses and noise on heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	foam: grey; foil: blue
Applications	Insulation / protection of pipes (heating system pipes, domestic hot and cold water pipes) and other parts of heating and plumbing installations (incl. elbows, fittings, flanges, etc).
Special Features	Foil coating on outer surface for additional protection of insulation surface.
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with constant or almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. 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	+ 100 °C	(+ 85 °C for tapes)
	min. service temperature		(as is usual in plumbing and heating installations)
Thermal Conductivity			
Thermal Conductivity	ϑ_m 40	[°C]	$\lambda =$
	Tubolit S $\lambda \leq 0,040$	W/(m · K)	$[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$
Fire performance			
Reaction to fire ¹	Tubolit S	E	
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2		

1. The reaction to fire classification is valid on metal surfaces.

*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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.
Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 adhesive and Clipse must be used to guarantee proper installation.

Technical Data - Tubolit S Plus

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses and noise on heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	foam: grey; foil: blue
Applications	Insulation / protection of pipes (heating system pipes, domestic hot and cold water pipes) and other parts of heating and plumbing installations (incl. elbows, fittings, flanges, etc).
Special Features	Foil coating on outer surface for for additional protection of insulation surface. Foil coating on inner surface for better sleeve-on installation.
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with constant or almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. 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 + 100 °C (+ 85 °C for tapes) min. service temperature (as is usual in plumbing and heating installations)	EU 5676	Tested acc. to EN 14707 and EN 14313
Thermal Conductivity			
Thermal Conductivity ¹	ϑ_m 40 [°C] $\lambda =$	EU 5676	Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497
	Tubolit S Plus $\lambda \leq 0,045$ W/(m · K) $\frac{[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2]}{1000}$		
Fire performance			
Reaction to fire ²	Tubolit S Plus E	EU 5676	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EU 5676	Tested acc. to EN 822 EN 823 EN 13467

1. Due to testing method and laboratory equipment, thermal conductivity is measured for Tubolit DG, S and DHS in a regular way
 2. The reaction to fire classification is valid on metal surfaces.
- *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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.
Please consult our Customer Service Center before insulating stainless steels.

Technical Data - Tubolit AR Fonowave

Brief description	Flexible, closed-cell extruded insulation material to reduce noise and prevent condensation especially on plastic waste water, rain water and sewage pipes.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	blue
Material Special Information	Self-adhesive coating on tapes: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil.
Applications	Acoustical and thermal insulation of internal waste water, rain water and sewage pipes in residential and non-residential buildings. For complex and large diameter rain collecting and (roof-) drainage pipes, to provide optimal protection against the risk of condensation, we recommend using Armaflex insulation.
Special Features	Foil coating on outer surface for additional protection of insulation surface. Specially wave-shaped inner surface provides excellent acoustical performance on plastic pipes.
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 + 100 °C (+ 85 °C for tapes)	EU 5679	Tested acc. to EN 14707 and EN 14313
	min. service temperature (as is usual in plumbing installations)		
Thermal Conductivity			
Thermal Conductivity ¹	ϑ_m 40 [°C] $\lambda =$	EU 5679 EU 5682	Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497
	Tubolit AR Fonowave $\lambda \leq 0,045$ W/(m · K) $[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$		
	Tubolit AR tape $\lambda \leq 0,045$ W/(m · K) $[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$		
Fire performance			
Reaction to fire ²	Tubolit AR Fonowave E	EU 5679 EU 5682	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2
	Tubolit AR tape E		
Acoustic Performance			
Reduction of structure-borne sound transmission	on plastic waste water pipes ≤ 11 dB(A)	D 4478	Tested acc. to EN 14366
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EU 5679 EU 5682	Tested acc. to EN 822 EN 823 EN 13467
Storage & Shelf life	Tapes self-adhesive: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

1. Due to testing method and laboratory equipment, thermal conductivity is measured for Tubolit DG, S and DHS in a regular way

2. The reaction to fire classification is valid on metal surfaces.

*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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.

Technical Data - Tubolit AR Fonoblok

Brief description	Flexible, closed-cell extruded insulation material to reduce noise and prevent condensation especially on cast iron pipes for waste water, rain water and sewage pipes.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	blue
Material Special Information	Self-adhesive coating on tapes: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil.
Applications	Acoustical and thermal insulation of internal waste water, rain water and sewage pipes in residential and non-residential buildings. For complex and large diameter rain collecting and (roof-) drainage pipes, to provide optimal protection against the risk of condensation, we recommend using Armaflex insulation.
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 + 100 °C (+ 85 °C for tapes) min. service temperature (as is usual in plumbing installations)	EU 5677 EU 5682	Tested acc. to EN 14707 and EN 14313
Thermal Conductivity			
Thermal Conductivity ¹	ϑ_m 40 [°C] $\lambda =$	EU 5677 EU 5682	Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497
	Tubolit AR Fonoblok $\lambda \leq 0,045$ W/(m · K) $[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$		
	Tubolit AR tape $\lambda \leq 0,045$ W/(m · K) $[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$		
Fire performance			
Reaction to fire ²	Tubolit AR Fonoblok	E	EU 5677 EU 5682 Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2
	Tubolit AR tape	E	
Acoustic Performance			
Reduction of structure-borne sound transmission	on cast-iron waste water pipes	≤ 15 dB(A)	D 2144 Tested acc. to EN 14366
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EU 5677 EU 5682	Tested acc. to EN 822 EN 823 EN 13467
Storage & Shelf life	Tapes self-adhesive: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

1. Due to testing method and laboratory equipment, thermal conductivity is measured for Tubolit DG, S and DHS in a regular way

2. The reaction to fire classification is valid on metal surfaces.

*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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.

Technical Data - Tubolit ARS

Brief description	Flexible, closed-cell extruded insulation material to reduce noise and prevent condensation on waste water, rain water and sewage pipes.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	foam: grey; foil: blue
Product Range	Acoustical and thermal insulation of internal waste water, rain water and sewage pipes in residential and non-residential buildings. For complex and large diameter rain collecting and (roof-) drainage pipes, to provide optimal protection against the risk of condensation, we recommend using Armaflex insulation.
Special Features	Foil coating on outer surface for for additional protection of insulation surface.
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	+ 100 °C	(+ 85 °C for tapes)
	min. service temperature		(as is usual in plumbing installations)
Thermal Conductivity			
Thermal Conductivity ¹	ϑ_m 40	[°C]	$\lambda =$
	Tubolit ARS $\lambda \leq 0,045$	W/(m · K)	$[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m - 40)^2] / 1000$
Fire performance			
Reaction to fire ²	Tubolit ARS	E	
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EU 5678	Tested acc. to EN 822 EN 823 EN 13467

1. Due to testing method and laboratory equipment, thermal conductivity is measured for Tubolit DG, S and DHS in a regular way

2. The reaction to fire classification is valid on metal surfaces.

*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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.

Technical Data - Tubolit DHS Quadra

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses and noise on heating and plumbing installations.
Material type	Foam material based on polyethylene.
Colour	foam: grey; foil: blue
Special Features	Specially designed insulation tubes with excentric rectangular cross-section to provide optimal control of heat loss and space saving in under-floor application. Robust protective foil with embossing for an additional mechanical protection during installation.
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with constant or almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. 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 + 100 °C (+ 85 °C for tapes) min. service temperature (as is usual in plumbing and heating installations)	EU 5725	Tested acc. to EN 14707 and EN 14313
Thermal Conductivity			
Thermal Conductivity	ϑ_m 40 [°C] Tubolit DHS Quadra, 9 mm $\lambda \leq 0,040$ W/(m · K) Tubolit DHS Quadra, 25 - 27 mm $\lambda \leq 0,042$ W/(m · K)	EU 5725 D 4761	Tested according to DIN 52612-1
Fire performance			
Reaction to fire ¹	Tubolit DHS Quadra 9 - 27 mm E	EU 5725	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2
Acoustic Performance			
Reduction of structure-borne sound transmission	Tubolit DHS Quadra ≤ 34 dB	D 4742	Tested according to EN ISO 140-8
Other technical features			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2	EU 5725	Tested acc. to EN 822 EN 823 EN 13467

1. The reaction to fire classification is valid on metal surfaces.

*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. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.
Armaflex 520 adhesive and Clipse must be used to guarantee proper installation.

Technical Data - Tubolit FS

Brief description	Tubolit®FS is a fleece endless tube with a white Low Density Polyethylene (LDPE) foil. Tubolit®FS includes also a vapour barrier. The thickness of the fleece band is 3 mm +/- 0,5 mm. Endless tube length = 10 m +/- 0,15 m.
Colour	Fleece tube = multicoloured brown. LDPE = white with a black printed text.

Property	Value/Assessment
Fire performance	
Reaction to fire	Tubolit® FS B2 in accordance with DIN 4102

Technical Data - Tubolit WF

Brief description	Tubolit® WF is a large range of: - non-woven strips (WFN, WF, WFP) - and polyethylene tapes (WFT, WF2).
Material type	Tubolit® WF is sold in rolls in width: 70 mm or 100 mm . Tubolit® WF range is available with or without self-adhesive.
Colour	All the products in the range are covered with a blue foil excepted Tubolit WFN which is a non-woven strip, only. Non-woven strip = multicoloured braun. Polyethylene foam tape = white.
Applications	Tubolit® WF is dedicated for heating and plumbing applications
Special Features	Tubolit ® WF and WFN are free from salt corrosion in accordance with DIN 53 125
Manufacturing	The product must be stocked in dry conditions. Adhesive shelf life = 1 year.

Property	Value/Assessment	
Temperature Range		
Temperature Range	max. service temperature	+ 95 °C +105 °C for Tubolit® WFN
Fire performance		
Reaction to fire	Tubolit ® WF	B2 in accordance with DIN 4102

Tubolit DG tubes



Length 2,0 m

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness		13,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
10	TL-10/9-DG	520	-	-
12	-	-	TL-12/13-DG	190
15	-	-	TL-15/13-DG	192
18	-	-	TL-18/13-DG	156
20	TL-20/9-DG	212	TL-20/13-DG	140
22	-	-	TL-22/13-DG	140
25	TL-25/9-DG	138	TL-25/13-DG	124
28	-	-	TL-28/13-DG	108
32	TL-32/9-DG	122	TL-32/13-DG	90
35	-	-	TL-35/13-DG	88
40	TL-40/9-DG	82	TL-40/13-DG	70
42	-	-	TL-42/13-DG	60
48	-	-	TL-48/13-DG	60
54	-	-	TL-54/13-DG	50
60	-	-	TL-60/13-DG	38
64	TL-64/9-DG	50	TL-64/13-DG	32
76	TL-76/9-DG	32	TL-76/13-DG	26
89	TL-89/9-DG	22	TL-89/13-DG	22
110	-	-	TL-110/13-DG	16
114	-	-	TL-114/13-DG	12

Pipe max. Outside-Ø [mm]	20,0 mm insulation thickness		25,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
42	TL-42/20-DG	44	-	-
48	TL-48/20-DG	40	TL-48/25-DG	24
54	TL-54/20-DG	32	TL-54/25-DG	24
60	TL-60/20-DG	28	TL-60/25-DG	24
64	TL-64/20-DG	26	-	-
76	TL-76/20-DG	20	-	-
89	TL-89/20-DG	18	-	-
110	TL-110/20-DG	12	-	-
114	TL-114/20-DG	12	-	-

Tubolit DG tubes self-adhesive



Length 2,0 m

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness		13,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
12	TL-12/9-DG-A ●	300	-	-
15	TL-15/9-DG-A	250	TL-15/13-DG-A	180
18	TL-18/9-DG-A	214	TL-18/13-DG-A	148
22	TL-22/9-DG-A	178	TL-22/13-DG-A	128
28	TL-28/9-DG-A	130	TL-28/13-DG-A	98
35	TL-35/9-DG-A	96	TL-35/13-DG-A	88
42	TL-42/9-DG-A	72	-	-
48	TL-48/9-DG-A ●	70	TL-48/13-DG-A	52
54	TL-54/9-DG-A ●	58	TL-54/13-DG-A	50
60	TL-60/9-DG-A ●	48	TL-60/13-DG-A	38

Tubolit DG tubes self-adhesive



Length 2,0 m

Pipe max. Outside-Ø [mm]	20,0 mm insulation thickness			
	Code	m/carton		
15	TL-15/20-DG-A ●	100	-	-
18	TL-18/20-DG-A ●	88	-	-
22	TL-22/20-DG-A ●	80	-	-
28	TL-28/20-DG-A ●	68	-	-
35	TL-35/20-DG-A	50	-	-
42	TL-42/20-DG-A	44	-	-
48	TL-48/20-DG-A	40	-	-
54	TL-54/20-DG-A	32	-	-
60	TL-60/20-DG-A	28	-	-

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

Tubolit DG tapes self-adhesive



Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
TL-T-TAPE/50-DG-BE	50,0	15	0.18	36

Tubolit DG B1 tubes



Length 2,0 m

Pipe max. Outside-Ø [mm]	13,0 mm		25,0 mm	
	Code	m/carton	Code	m/carton
10	TL-10/13-DG-B1	190	-	-
12	TL-12/13-DG-B1 ¹	190	-	-
15	TL-15/13-DG-B1 ¹	180	TL-15/27-DG-B1 ²	66
18	TL-18/13-DG-B1 ¹	148	TL-18/26-DG-B1 ²	56
22	TL-22/13-DG-B1 ¹	128	TL-22/26-DG-B1 ²	54
28	TL-28/13-DG-B1 ^{2,1}	98	TL-28/25-DG-B1 ^{3,2}	46
35	TL-35/13-DG-B1	88	TL-35/25-DG-B1	32
42	TL-42/13-DG-B1	60	TL-42/25-DG-B1	28
48	TL-48/13-DG-B1	52	-	-
54	TL-54/13-DG-B1	50	-	-
60	TL-60/13-DG-B1	38	-	-
110	TL-110/13-DG-B1	16	TL-110/25-DG-B1 ●	8
114	TL-114/13-DG-B1	12	TL-114/25-DG-B1	8

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

¹ [DE] According to EnEV 50%

² [DE] According to EnEV 100%

³ For steel pipes

Tubolit DG B1 tubes



Length 2,0 m

Pipe max. Outside-Ø [mm]	[DE] Field of application C + D according to EnEV insulation thickness 9,0 mm		[DE] Field of application B according to EnEV insulation thickness 20,0 mm	
	Code	m/carton	Code	m/carton
10	TL-10/9-DG-B1	300	-	-
12	TL-12/9-DG-B1 ⁴	300	-	-
15	TL-15/9-DG-B1 ⁴	250	TL-15/20-DG-B1 ⁵	100
18	TL-18/9-DG-B1 ⁴	214	TL-18/20-DG-B1 ⁵	88
22	TL-22/9-DG-B1 ⁴	178	TL-22/20-DG-B1 ⁵	80
28	TL-28/9-DG-B1 ⁴	130	TL-28/20-DG-B1 ⁵	68
35	TL-35/9-DG-B1 ⁴	96	TL-35/20-DG-B1 ⁵	50
42	TL-42/9-DG-B1 ⁴	72	-	-
48	TL-48/9-DG-B1 ⁴	70	-	-
54	TL-54/9-DG-B1	58	-	-
60	TL-60/9-DG-B1	48	-	-
76	TL-76/9-DG-B1	32	-	-
89	TL-89/9-DG-B1	22	-	-

Pipe max. Outside-Ø [mm]	[DE] Field of application A according to EnEV insulation thickness 25,0 mm			
	Code	m/carton		
15	TL-15/27-DG-B1 ⁶	66	-	-
18	TL-18/26-DG-B1 ⁶	56	-	-
22	TL-22/26-DG-B1 ⁶	54	-	-
28	TL-28/25-DG-B1 ^{7,6}	46	-	-

⁴ [DE] According to EnEV floor construction

⁵ [DE] According to EnEV 50%

⁶ [DE] According to EnEV 100%

⁷ For steel pipes

Tubolit DG Plus tubes



Color dark grey

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness		13,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
12	TL-12/9-DGPlus ^{1,2}	300	TL-12/13-DGPlus ³	190
15	TL-15/9-DGPlus ^{1,2}	232	TL-15/13-DGPlus ³	162
18	TL-18/9-DGPlus ^{1,2}	190	TL-18/13-DGPlus ³	136
22	TL-22/9-DGPlus ^{1,2}	162	TL-22/13-DGPlus ³	120
28	TL-28/9-DGPlus ^{1,2}	126	TL-28/13-DGPlus ³	98
35	TL-35/9-DGPlus ^{1,2}	92	TL-35/13-DGPlus	72
42	TL-42/9-DGPlus ^{1,2}	72	TL-42/13-DGPlus	56
48	TL-48/9-DGPlus ^{1,2}	66	TL-48/13-DGPlus	50
54	TL-54/9-DGPlus ^{1,2}	50	TL-54/13-DGPlus	46
60	TL-60/9-DGPlus ^{1,2}	46	TL-60/13-DGPlus	38
64	TL-64/9-DGPlus ^{1,2}	42	TL-64/13-DGPlus	32
76	TL-76/9-DGPlus ^{1,2}	32	TL-76/13-DGPlus	24
89	TL-89/9-DGPlus ^{1,2}	22	TL-89/13-DGPlus	18
114	-	-	TL-114/13-DGPlus	12

Tubolit DG Plus tubes



Color dark grey

Pipe max. Outside-Ø [mm]	20,0 mm insulation thickness		25,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
15	TL-15/20-DGPlus ³	100	TL-15/27-DGPlus ⁴	66
18	TL-18/20-DGPlus ³	88	TL-18/26-DGPlus ⁴	56
22	TL-22/20-DGPlus ³	80	TL-22/26-DGPlus ⁴	54
28	TL-28/20-DGPlus ³	68	TL-28/25-DGPlus ⁴	46
35	TL-35/20-DGPlus ³	50	-	-
42	TL-42/20-DGPlus	44	-	-
54	TL-54/20-DGPlus	32	-	-
60	TL-60/20-DGPlus ●	28	-	-
64	TL-64/20-DGPlus ●	26	-	-
76	TL-76/20-DGPlus ●	20	-	-
89	TL-89/20-DGPlus ●	18	-	-
110	TL-110/20-DGPlus ●	12	-	-
114	TL-114/20-DGPlus ●	12	-	-

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

¹ [DE] According to EnEV floor construction

³ [DE] According to EnEV 50%

⁴ [DE] According to EnEV 100%

Tubolit S tubes



Length 2,0 m, Color blue, Tubes with hardwearing PE-foil

Pipe max. Outside-Ø [mm]	6,0 mm insulation thickness		9,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
15	TL-15/6-S	340	TL-15/9-S ¹	234
18	TL-18/6-S	280	TL-18/9-S ¹	214
22	TL-22/6-S	240	TL-22/9-S ¹	178
28	TL-28/6-S	170	TL-28/9-S ¹	130
35	TL-35/6-S	118	TL-35/9-S ¹	96
42	-	-	TL-42/9-S ¹	72
48	-	-	TL-48/9-S	70

Pipe max. Outside-Ø [mm]	13,0 mm insulation thickness		20,0 mm insulation thickness	
	Code	m/carton	Code	m/carton
15	TL-15/13-S ²	172	-	-
18	TL-18/13-S ²	148	-	-
22	TL-22/13-S ²	128	-	-
28	TL-28/13-S ²	98	TL-28/20-S ²	60
35	TL-35/13-S	72	TL-35/20-S ²	50
42	TL-42/13-S	56	TL-42/20-S	40

Pipe max. Outside-Ø [mm]	25,0 mm insulation thickness			
	Code	m/carton		
15	TL-15/27-S ³	66	-	-
18	TL-18/26-S ³	56	-	-
22	TL-22/26-S ³	54	-	-
28	TL-28/25-S ^{4,3}	46	-	-

¹ [DE] According to EnEV floor construction

² [DE] According to EnEV 50%

³ [DE] According to EnEV 100%

⁴ For steel pipes

Tubolit S Plus tubes endless



Length 20,0 m, Color grey, Covering Color blue, with robust protective foil on outside plus transparent inner foil for fast and easy application

Pipe max. Outside-Ø [mm]	4,0 mm insulation thickness		
	Code	m/carton	Rolls/carton
15	TL-12-15/4-S+	520	26
18	TL-18/4-S+	440	22
20	TL-20/4-S+	440	22
22	TL-22/4-S+	400	20
25	TL-24/4-S+	400	20
28	TL-28/4-S+	320	16
30	TL-30/4-S+	320	16
35	TL-35/4-S+	280	14
42	TL-42/4-S+ •	240	12

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

Tubolit AR Fonowave tubes endless



Length 10,0 m, Thickness 9,0 mm, Color blue, Covering Color blue, with engineered wavy profile and robust protective foil

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness				
	Outer- Ø [mm]	Nominal width DN	Code	m/carton	Rolls/carton
57	50/56	50/56	TL-50/9-ARW	80	8
76	75	70	TL-70/9-ARW	60	6
89	90	90	TL-90/9-ARW	50	5
110	110	100	TL-100/9-ARW	50	5
133	125/135	125	TL-125/9-ARW	40	4

Tubolit AR Fonowave tapes self-adhesive



Color blue, made of high quality polyethylene

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

Tubolit AR Fonoblok tubes endless



Length 15,0 m, Thickness 5,0 mm, Color blue

Pipe max. Outside-Ø [mm]	5,0 mm insulation thickness				
	Outer- Ø [mm]	Nominal width DN	Code	m/carton	Rolls/carton
57	58	50	TL-50/5-AR	135	9
64	63	60	TL-60/5-AR	120	8
76	78	70	TL-70/5-AR	105	7
89	90	90	TL-90/5-AR	75	5
108	110	100	TL-100/5-AR	75	5
133	135	125	TL-125/5-AR	60	4
160	160	150	TL-150/5-AR	45	3

Tubolit AR Fonoblok tapes self-adhesive



Color blue, Material from high quality polyethylene

Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
TL-TAPE/50-AR	50,0	15	3	12
TL-TAPE/100-AR •	100,0	15	3	6

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

Tubolit AR Vlies tubes endless



Length 10,0 m, Thickness 4,0 mm, Covering Color white, Fleece wastewater hose with an exterior foil

Pipe max. Outside-Ø [mm]	Code	m/carton
50	TL-50/4-ARV	200
70	TL-70/4-ARV	150
90	TL-90/4-ARV	100
100	TL-100/4-ARV	100
125	TL-125/4-ARV •	50

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

Tubolit ARS tubes endless



Length 15,0 m, Thickness 4,0 mm, Covering Color blue, PE Abwasserschlauch mit Aussenfolie

Pipe max. Outside-Ø [mm]	4,0 mm insulation thickness	
	Code	m/carton
50	TL-50/4-ARS	135
70	TL-70/4-ARS	105
90	TL-90/4-ARS	75
100	TL-100/4-ARS	75
125	TL-125/4-ARS	60

Tubolit ARS tapes self-adhesive



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

Tubolit DHS Quadra excentrical tubes



Length 2,0 m, Color grey, Covering Color blue, Isolierung mit quadratischem Profil für Fußbodenverlegung im Estrichbereich gemäß EnEV

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness			25,0 mm insulation thickness		
	Code	Max. height[mμ]	m/carton	Code	Max. height[mμ]	m/carton
15	CO-15/9-DHQ	31	190	CO-15/25-DHQ	53	130
18	CO-18/9-DHQ	34	160	CO-18/25-DHQ	55	120
22	CO-22/9-DHQ	38	140	CO-22/25-DHQ	59	100
28	CO-28/9-DHQ	45.5	100	CO-28/25-DHQ ¹	65	70
35	CO-35/9-DHQ	52.5	80	-	-	-

¹ For steel pipes

Tubolit DHS Quadra excetrical tubes



Length 2,0 m, Color grey, Covering Color blue, Isolierung mit quadratischem Profil für Fußbodenverlegung im Estrichbereich gemäß EnEV

Pipe max. Outside-Ø [mm]	[DE] Field of application C according to EnEV insulation thickness 9,0 mm			[DE] Field of application A according to EnEV insulation thickness 25,0 mm		
	Code	Max. height[mμ]	m/carton	Code	Max. height[mμ]	m/carton
15	CO-15/9-DHQ	31	190	CO-15/25-DHQ	53	130
18	CO-18/9-DHQ	34	160	CO-18/25-DHQ	55	120
22	CO-22/9-DHQ	38	140	CO-22/25-DHQ	59	100
28	CO-28/9-DHQ	45.5	100	CO-28/25-DHQ ²	65	70
35	CO-35/9-DHQ	52.5	80	-	-	-

² For steel pipes

Tubolit FS tubes endless



Length 10,0 m, Covering Color silver, Schutzschlauch mit innenliegender Vliesschicht, feuchtigkeitssperrende Folie, Isolierschicht aus unverrottbarem, vernadeltem Vlies

Pipe max. Outside-Ø [mm]	4,0 mm insulation thickness	
	Code	m/carton
12	TL-12/15-FS	200
18	TL-18-FS	200
22	TL-22-FS	200
28	TL-28-FS	200
35	TL-35-FS	200

Tubolit WF bandages



Length 3,6 m, Color blue

Code	Article description	Width [mm]	Rolls/carton
TL-70-WFN •	Tubolit WFN: one non-woven moisture-resistant strip, needled fleece, without covering foil. Does not rot.	70,0	252
TL-70-WF	Tubolit WF: non-woven moisture-resistant strip with a blue polyethylene covering film	70,0	252
TL-70-WFP	Tubolit WFP (Plus): non-woven strip on polyethylene band covered with a reinforced blue polyethylene film, moisture-resistant	70,0	168
TL-70-WF2	Tubolit WF2: polyethylene foam tape covered with a blue foil	70,0	168
TL-100-WFN	Tubolit WFN: one non-woven moisture-resistant strip, needled fleece, without covering foil. Does not rot.	100,0	180
TL-100-WF	Tubolit WF: non-woven moisture-resistant strip with a blue polyethylene covering film	100,0	180
TL-100-WF2	Tubolit WF2: polyethylene foam tape covered with a blue foil	100,0	120

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

Tubolit WF bandages self-adhesive



Length 3,6 m, Color blue

Code	Article description	Width [mm]	Rolls/carton
TL-70-WF-A	Tubolit WF-A: self-adhesive, non-woven moisture-resistant strip with blue polyethylene covering film	70,0	224
TL-70-WF2-A	Tubolit WF2-A: self-adhesive, polyethylene foam tape covered with a blue foil	70,0	168
TL-70-WFP-A	Tubolit WFP (Plus)-A: self-adhesive, non-woven strip on polyethylene band covered with a reinforced blue foil	70,0	168
TL-100-WF-A	Tubolit WF-A: self-adhesive, non-woven moisture-resistant strip with blue polyethylene covering film	100,0	160
TL-100-WF2-A	Tubolit WF2-A: self-adhesive, polyethylene foam tape covered with a blue foil	100,0	120

Tubolit Accessories



Code	Article description	Pieces/bag	Pieces/carton
PVC-TAPE-BE	Tubolit Tape PVC blue (25 m x 38 mm width)	-	16
TLT-TAPE/50-DG	Tubolit DG PE Tape Grey (10 m x 50mm width)	-	12
TL-CLIPS	Tubolit Clips (bags of 100 clips)	100	25