

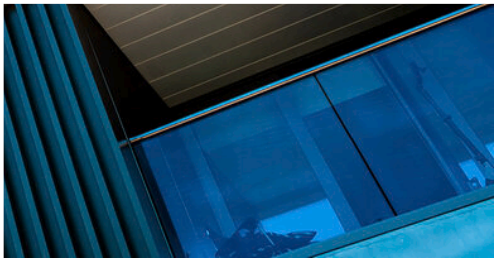
INSTALL IT. TRUST IT.

# ArmaFlex
## ACE Plus

The upgraded flexible insulation solution for improved fire safety

// Reliable condensation control
// Effective reduction of thermal losses
// Optimal range for easy application on most common pipes & duct sizes
// Increased system security when installed with ArmaFix and ArmaFlex Adhesives

www.armacell.com







armacell®
ArmaFlex®

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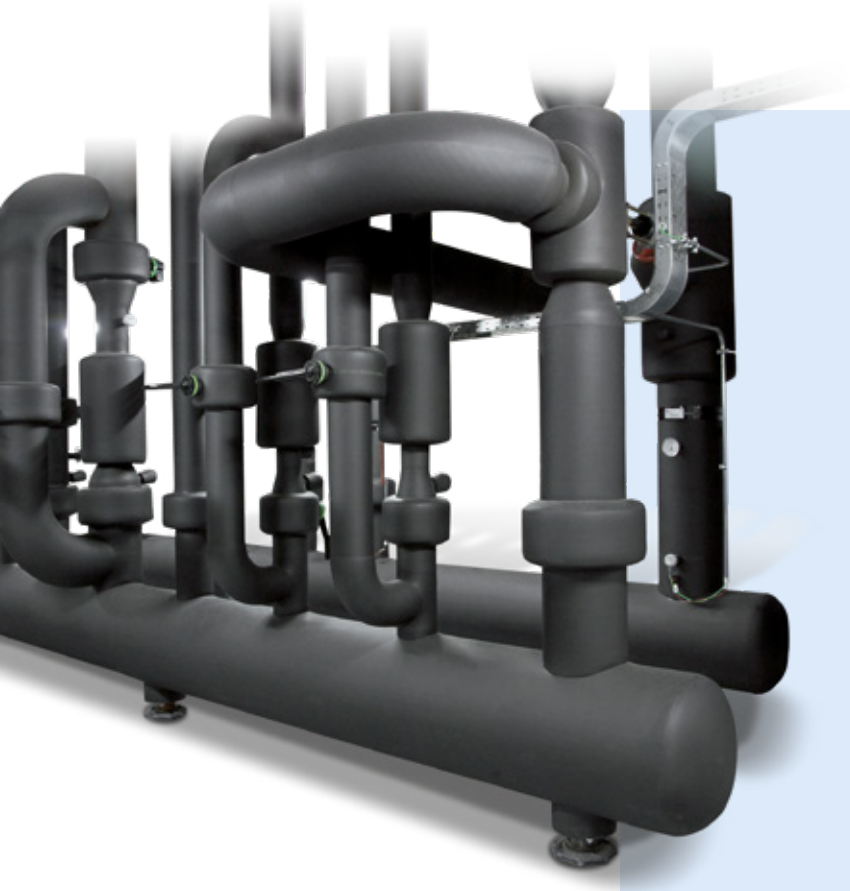
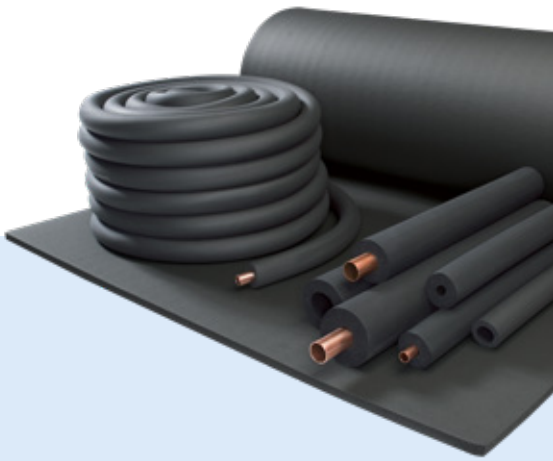
# ArmaFlex ACE Plus

Armacell's ArmaFlex ACE Plus is an insulation material developed on the basis of closed-cell elastomeric foam. It acts as an excellent barrier against condensation due to its high coefficient of resistance to water vapour diffusion. Also, it effectively reduces energy losses from installations and fittings because of its very low thermal conductivity.

Increased fire classification was a top priority during product development which our team of experts successfully met. The material does not participate in the spread of fire. It is also non-drip and self-extinguishing. All this gives ArmaFlex ACE Plus a fire reaction class of $B_L$-s2,d0 (for tubes) and B-s3,d0 (rolls and tape) according to European standard EN 13501-1.

Thanks to this versatility, this innovative product can be used on air-conditioning systems, refrigeration equipment or ventilation ducts. What's more, the material's flexibility makes it possible to cut easily and conform to preferred shapes.





Our new ArmaFlex ACE Plus insulation range includes tubes (Lap-Seal and Top-Seal) and rolls (standard and self-adhesive). Also, you can use alongside our accessories including self-adhesive tape and ArmaFlex dedicated adhesives.

# Technical features

The following technical considerations should be taken into account when specifying thermal insulation products for HVAC-R, process and industrial pipe and ductwork systems.

### // Energy saving

**Optimal pipe insulation of mechanical equipment, including space heating, domestic hot water or cooling systems - is one of the single most effective measures for improving energy efficiency**, prolonging the lifespan of equipment, and reducing associated greenhouse gas emissions.

### // Thermal conductivity and condensation control

Thermal conductivity (λ factor), stated in W/(m·K), is the **property of a material's ability to conduct heat**, measured across a 1m³ block. For example, a material with a high thermal conductivity such as copper has a value of 386 compared to a low thermal conductivity material such as ArmaFlex ACE Plus at 0.035 at 0 °C (max. thickness 25mm). Where pipework and services operate at below-ambient temperature water vapour condenses on the surface. If insulation becomes wet it loses thermal performance, leading to colder surface temperatures, condensation and corrosion issues. **Closed-cell ArmaFlex products provide an integral water vapour diffusion barrier** with a μ-value of ≥10,000 (max. thickness 25mm).

### // CE marking

CE marking became a mandatory requirement for thermal insulation construction products governed by a European harmonised standard (hEN) in July 2013. **The harmonised standards determine the required characteristics and obligatory properties, including fire behaviour (Euroclasses), dimensions and tolerances, thermal conductivity, dimensional stability and durability characteristics.** Once a product has been tested to meet the required properties, a designation code is printed on the product label to display the specific technical properties required by the hEN. The producer must constantly keep the performance of its products at the declared level and show proof with valid testing certificates e.g. $B_L$-s2,d0

| Euroclass | Contribution to fire |
|---|---|
| A1 | Non Combustible |
| A2 | Limited Combustible No Flashover |
| B | No Flashover |
| C | Flashover after 10 minutes |
| D | Flashover before 10 minutes |
| E | Flashover before 2 minutes |
| F | No Performance Determined |

### // The European reaction to fire classification

Fire safety of construction products and building elements in the EU is determined by Euroclasses according to the EN 13501-1 standard. The uniform classification system is based on the performance of products under different fire conditions: the attack of a small flame, exposure to a fully developed fire and some intermediate level. **The main properties determining the Euroclass for a specific product discloses if and how fast a product contributes to the fire.**




### // Local regulations for fire protection

The decisions regarding fire reaction classifications of the building elements used in various parts of a building are made at the local level (by country government bodies). The rules for required Euroclass reaction to the fire of products installed in different places within the building are also published locally.

# TECHNICAL DATA - ARMAFLEX ACE PLUS

| | |
|---|---|
| Brief description | Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance and low thermal conductivity. |
| Material type | Elastomeric foam based on synthetic rubber. Factory-made flexible elastomeric foam (FEF), according to EN 14304. |
| Product colour range | Black |
| Applications | Insulation/protection of pipes, air ducts, vessels (including elbows, fittings, flanges, etc.) of air-conditioning, refrigeration and process equipment to prevent condensation and save energy as well as insulation of pipes in sanitary and heating applications. |
| Installation | Please refer to the ArmaFlex application manual for advice. For further information please contact our Customer Service Centre. |
| 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 | | | Standard / Test method |
|---|---|---|---|---|
| **Temperature range** | | | | |
| Service temperature | Min. °C[1] | Max. °C | | EN 14706, EN 14707, EN 14304 |
| | -50 | 110 | | |
| | Remarks | +85 °C if sheet or tape is glued to the object with its whole surface<br>+85 °C for tapes | | |
| **Thermal conductivity** | | | | |
| Declared thermal conductivity | Θm | 0°C | 40°C | EN ISO 13787, EN 12667, EN ISO 8497 |
| | λd ⩽ [W/(m·K)] | 0,035 | 0,040 | |
| | Range | Tubes, ⩽ 25 mm, sheets and tapes | | |
| | Formula | λ(ϑm)=[35 + 0.1· ϑm + 0.0008 · ϑm²]/1000 | | |
| Declared thermal conductivity | Θm | 0°C | 40°C | EN ISO 13787, EN 12667, EN ISO 8497 |
| | λd ⩽ [W/(m·K)] | 0,036 | 0,041 | |
| | Range | Tubes > 25 mm | | |
| | Formula | λ(ϑm)=[36 + 0.1· ϑm + 0.0008 · ϑm²]/1000 | | |
| **Fire Performance and Approvals** | | | | |
| Reaction to fire | Tubes: B(L)-s2, d0<br>Sheets and Tapes: B-s3,d0 | | | EN 13501-1, EN 13823, EN ISO 11925-2 |
| **Fire performance** | | | | |
| Practical fire behaviour | Self-extinguishing, does not drip, does not spread flames | | | |
| **Resistance to water vapour** | | | | |
| Water vapour diffusion resistance factor | sheets 6-32 mm; tubes 6-25 mm; tape 3 mm: μ ⩾ 10,000<br>sheets >32 mm; tubes >25 mm: μ ⩾ 7,000 | | | EN 12086, EN 13469 |
| **Physical attributes** | | | | |
| Dimensions and tolerances | In accordance with EN 14304, table 1 | | | EN 822, EN 823, EN 13467 |
| **Weather and UV resistance** | | | | |
| UV resistance[2] | Protection against UV-radiation is necessary. See TB 142 | | | |
| **Health and environment** | | | | |
| Volatile organic compounds (VOC) content | Fulfills all VOC requirements (French, Italian, Belgian, German AgBB, Blauer Engel and Eurofins Indoor Air Comfort GOLD). | | | ISO 16000 Parts 3, 6 & 9 |
| Antimicrobial behaviour | antimicrobian insulation, resistance against mould and bacteria in accordance with ISO 846 | | | |
| Environmental Product Declaration (EPD) | Type III Environmental Product Declaration (EPD) | | | ISO 14025, EN 15804+A2 |

| Property | Value / Assessment | Standard / Test method |
|---|---|---|
| Green building assessment | Meets the sustainable construction requirements for LEED v4.1, BREEAM international and DGNB. | |
| Additional features | SCCP, MCCP-free | |
| **Other technical features** | | |
| Shelf life | Self-adhesive tapes, self-adhesive sheets: 1 year | |
| Storage | 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 Centre to request for the corresponding technical information.

[2] If ArmaFlex is applied under UV-radiation, the material must be protected within 3 days with paint or a covering.

**Tube – standard. Black. Length: 2 m**

| 6 mm | | | | | 9 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 6 | **ACE/P-06X006** | | 7612207537420 | 496 m | 6 | **ACE/P-09X006** | | 7612207536669 | 352 m |
| 8 | **ACE/P-06X008** | * | 7612207392470 | 432 m | 8 | **ACE/P-09X008** | | 7612207537482 | 300 m |
| 10 | **ACE/P-06X010** | | 7612207392487 | 380 m | 10 | **ACE/P-09X010** | | 7612207392715 | 266 m |
| 12 | **ACE/P-06X012** | | 7612207392494 | 330 m | 12 | **ACE/P-09X012** | | 7612207392722 | 234 m |
| 15 | **ACE/P-06X015** | | 7612207392500 | 280 m | 15 | **ACE/P-09X015** | | 7612207392739 | 200 m |
| 18 | **ACE/P-06X018** | | 7612207537161 | 210 m | 18 | **ACE/P-09X018** | | 7612207392746 | 166 m |
| 22 | **ACE/P-06X022** | | 7612207392531 | 170 m | 20 | **ACE/P-09X020** | | 7612207392753 | 140 m |
| 28 | **ACE/P-06X028** | | 7612207536645 | 112 m | 22 | **ACE/P-09X022** | | 7612207392760 | 140 m |
| 35 | **ACE/P-06X035** | | 7612207536652 | 92 m | 25 | **ACE/P-09X025** | | 7612207392777 | 108 m |
| - | - | - | - | - | 28 | **ACE/P-09X028** | | 7612207392784 | 98 m |
| - | - | - | - | - | 32 | **ACE/P-09X032** | | 7612207392791 | 80 m |
| - | - | - | - | - | 35 | **ACE/P-09X035** | | 7612207392807 | 76 m |
| - | - | - | - | - | 40 | **ACE/P-09X040** | | 7612207392814 | 66 m |
| - | - | - | - | - | 42 | **ACE/P-09X042** | | 7612207392821 | 64 m |
| - | - | - | - | - | 48 | **ACE/P-09X048** | | 7612207392838 | 54 m |
| - | - | - | - | - | 50 | **ACE/P-09X050** | | 7612207392845 | 46 m |
| - | - | - | - | - | 54 | **ACE/P-09X054** | | 7612207392852 | 52 m |
| - | - | - | - | - | 60 | **ACE/P-09X060** | | 7612207392869 | 48 m |
| - | - | - | - | - | 64 | **ACE/P-09X064** | | 7612207392876 | 44 m |
| - | - | - | - | - | 76 | **ACE/P-09X076** | | 7612207392890 | 32 m |
| - | - | - | - | - | 89 | **ACE/P-09X089** | | 7612207392913 | 28 m |
| - | - | - | - | - | 102 | **ACE/P-09X102** | * | 7612207537574 | 26 m |
| - | - | - | - | - | 108 | **ACE/P-09X108** | | 7612207392937 | 26 m |
| - | - | - | - | - | 110 | **ACE/P-09X110** | * | 7612207535754 | 24 m |
| - | - | - | - | - | 114 | **ACE/P-09X114** | | 7612207392944 | 24 m |
| - | - | - | - | - | 125 | **ACE/P-09X125** | | 7612207537581 | 14 m |
| - | - | - | - | - | 160 | **ACE/P-09X160** | * | 7612207537598 | 10 m |

**Other information**

| | |
|---|---|
| **Thickness tolerance** | 6 mm: ±1.0 mm<br>9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| **Length tolerance** | ± 1.5% |

**Tube – standard. Black. Length: 2 m**

| 13 mm | | | | | 19 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 6 | **ACE/P-13X006** | | 7612207537604 | 200 m | 6 | **ACE/P-19X006** | | 7612207535884 | 100 m |
| 12 | **ACE/P-13X012** | | 7612207566499 | 142 m | 10 | **ACE/P-19X010** | | 7612207535907 | 92 m |
| 15 | **ACE/P-13X015** | | 7612207392975 | 122 m | 12 | **ACE/P-19X012** | | 7612207535914 | 84 m |
| 18 | **ACE/P-13X018** | | 7612207392982 | 104 m | 15 | **ACE/P-19X015** | | 7612207392081 | 72 m |
| 20 | **ACE/P-13X020** | | 7612207392999 | 104 m | 18 | **ACE/P-19X018** | | 7612207392098 | 60 m |
| 25 | **ACE/P-13X025** | | 7612207393019 | 88 m | 20 | **ACE/P-19X020** | | 7612207392104 | 58 m |

Tube – standard. Black. Length: 2 m

| 13 mm | | | | | 19 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 32 | **ACE/P-13X032** | | 7612207393033 | 64 m | 22 | **ACE/P-19X022** | | 7612207392111 | 56 m |
| 35 | **ACE/P-13X035** | | 7612207393040 | 60 m | 25 | **ACE/P-19X025** | | 7612207392128 | 50 m |
| 40 | **ACE/P-13X040** | | 7612207537703 | 50 m | 28 | **ACE/P-19X028** | | 7612207392135 | 48 m |
| 42 | **ACE/P-13X042** | | 7612207391923 | 50 m | 32 | **ACE/P-19X032** | | 7612207392142 | 36 m |
| 50 | **ACE/P-13X050** | | 7612207537710 | 38 m | 35 | **ACE/P-19X035** | | 7612207536959 | 36 m |
| 54 | **ACE/P-13X054** | | 7612207391947 | 38 m | 40 | **ACE/P-19X040** | | 7612207392166 | 32 m |
| 64 | **ACE/P-13X064** | | 7612207391961 | 30 m | 42 | **ACE/P-19X042** | | 7612207392173 | 32 m |
| 70 | **ACE/P-13X070** | | 7612207537727 | 28 m | 48 | **ACE/P-19X048** | | 7612207392180 | 28 m |
| 76 | **ACE/P-13X076** | | 7612207391985 | 28 m | 50 | **ACE/P-19X050** | | 7612207392197 | 24 m |
| 80 | **ACE/P-13X080** | | 7612207391992 | 20 m | 54 | **ACE/P-19X054** | | 7612207392203 | 24 m |
| 89 | **ACE/P-13X089** | | 7612207392005 | 20 m | 60 | **ACE/P-19X060** | | 7612207392210 | 24 m |
| 102 | **ACE/P-13X102** | | 7612207392012 | 20 m | 64 | **ACE/P-19X064** | | 7612207392227 | 20 m |
| 108 | **ACE/P-13X108** | | 7612207392029 | 20 m | 70 | **ACE/P-19X070** | | 7612207392234 | 18 m |
| 114 | **ACE/P-13X114** | | 7612207392036 | 20 m | 76 | **ACE/P-19X076** | | 7612207392241 | 18 m |
| 125 | **ACE/P-13X125** | | 7612207537741 | 18 m | 80 | **ACE/P-19X080** | | 7612207392258 | 16 m |
| 133 | **ACE/P-13X133** | | 7612207392050 | 16 m | 89 | **ACE/P-19X089** | | 7612207392265 | 16 m |
| 140 | **ACE/P-13X140** | * | 7612207392067 | 12 m | 102 | **ACE/P-19X102** | * | 7612207536010 | 16 m |
| 160 | **ACE/P-13X160** | | 7612207392074 | 12 m | 108 | **ACE/P-19X108** | | 7612207392579 | 16 m |
| - | - | - | - | - | 110 | **ACE/P-19X110** | | 7612207537031 | 14 m |
| - | - | - | - | - | 114 | **ACE/P-19X114** | | 7612207392586 | 14 m |
| - | - | - | - | - | 125 | **ACE/P-19X125** | | 7612207536799 | 10 m |
| - | - | - | - | - | 133 | **ACE/P-19X133** | | 7612207392609 | 10 m |
| - | - | - | - | - | 140 | **ACE/P-19X140** | | 7612207392616 | 10 m |
| - | - | - | - | - | 160 | **ACE/P-19X160** | | 7612207392623 | 10 m |
| - | - | - | - | - | 168 | **ACE/P-19X168** | | 7612207537048 | 8 m |

Other information

| | |
|---|---|
| **Thickness tolerance** | 6 mm: ±1.0 mm<br>9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| **Length tolerance** | ± 1.5% |

Tube – standard. Black. Length: 2 m

| 25 mm | | | | | 32 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 10 | **ACE/P-25X010** | | 7612207536034 | 60 m | 15 | **ACE/P-32X015** | | 7612207536157 | 32 m |
| 12 | **ACE/P-25X012** | | 7612207536805 | 54 m | 18 | **ACE/P-32X018** | | 7612207536416 | 32 m |
| 15 | **ACE/P-25X015** | | 7612207537055 | 48 m | 20 | **ACE/P-32X020** | | 7612207536188 | 24 m |
| 18 | **ACE/P-25X018** | | 7612207537062 | 40 m | 22 | **ACE/P-32X022** | | 7612207536430 | 24 m |
| 20 | **ACE/P-25X020** | | 7612207392630 | 38 m | 25 | **ACE/P-32X025** | | 7612207536447 | 24 m |
| 22 | **ACE/P-25X022** | | 7612207392647 | 40 m | 28 | **ACE/P-32X028** | | 7612207390759 | 24 m |
| 25 | **ACE/P-25X025** | | 7612207392289 | 34 m | 32 | **ACE/P-32X032** | | 7612207536218 | 18 m |
| 28 | **ACE/P-25X028** | | 7612207392296 | 36 m | 35 | **ACE/P-32X035** | | 7612207390766 | 18 m |

Tube – standard. Black. Length: 2 m

| 25 mm | | | | | 32 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 32 | **ACE/P-25X032** | | 7612207535891 | 28 m | 40 | **ACE/P-32X040** | | 7612207536485 | 18 m |
| 35 | **ACE/P-25X035** | | 7612207392319 | 24 m | 42 | **ACE/P-32X042** | | 7612207391084 | 18 m |
| 42 | **ACE/P-25X042** | | 7612207392333 | 24 m | 48 | **ACE/P-32X048** | | 7612207391077 | 18 m |
| 48 | **ACE/P-25X048** | | 7612207392340 | 20 m | 50 | **ACE/P-32X050** | | 7612207536270 | 12 m |
| 54 | **ACE/P-25X054** | | 7612207392364 | 18 m | 54 | **ACE/P-32X054** | | 7612207391091 | 12 m |
| 60 | **ACE/P-25X060** | | 7612207392371 | 18 m | 60 | **ACE/P-32X060** | | 7612207392548 | 10 m |
| 64 | **ACE/P-25X064** | | 7612207392388 | 16 m | 64 | **ACE/P-32X064** | | 7612207391237 | 10 m |
| 76 | **ACE/P-25X076** | | 7612207536096 | 12 m | 70 | **ACE/P-32X070** | * | 7612207537086 | 10 m |
| 89 | **ACE/P-25X089** | | 7612207392425 | 12 m | 76 | **ACE/P-32X076** | | 7612207392555 | 10 m |
| 102 | **ACE/P-25X102** | * | 7612207536119 | 8 m | 80 | **ACE/P-32X080** | | 7612207537116 | 10 m |
| 108 | **ACE/P-25X108** | | 7612207392449 | 8 m | 89 | **ACE/P-32X089** | | 7612207392562 | 10 m |
| 114 | **ACE/P-25X114** | | 7612207392456 | 10 m | 102 | **ACE/P-32X102** | * | 7612207536867 | 6 m |
| 140 | **ACE/P-25X140** | | 7612207390841 | 4 m | 108 | **ACE/P-32X108** | * | 7612207535723 | 6 m |
| - | - | - | - | - | 114 | **ACE/P-32X114** | | 7612207390735 | 8 m |
| - | - | - | - | - | 125 | **ACE/P-32X125** | | 7612207536874 | 6 m |
| - | - | - | - | - | 133 | **ACE/P-32X133** | * | 7612207536522 | 6 m |
| - | - | - | - | - | 140 | **ACE/P-32X140** | | 7612207390742 | 6 m |
| - | - | - | - | - | 160 | **ACE/P-32X160** | | 7612207391244 | 4 m |

Other information

| | |
|---|---|
| Thickness tolerance | 6 mm: ±1.0 mm<br>9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| Length tolerance | ± 1.5% |

Tube – standard. Black. Length: 2 m

40 mm

| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
|---|---|---|---|---|
| 28 | **ACE/P-40X028** | | 7612207537321 | 18 m |
| 35 | **ACE/P-40X035** | | 7612207537338 | 16 m |
| 42 | **ACE/P-40X042** | | | 14 m |
| 48 | **ACE/P-40X048** | | | 14 m |
| 54 | **ACE/P-40X054** | | | 12 m |
| 60 | **ACE/P-40X060** | | | 12 m |
| 64 | **ACE/P-40X064** | | 7612207391404 | 10 m |
| 76 | **ACE/P-40X076** | | 7612207391411 | 8 m |
| 89 | **ACE/P-40X089** | | 7612207397956 | 6 m |
| 102 | **ACE/P-40X102** | * | 7612207537383 | 4 m |
| 108 | **ACE/P-40X108** | * | 7612207393637 | 4 m |
| 114 | **ACE/P-40X114** | | 7612207391428 | 6 m |
| 140 | **ACE/P-40X140** | | 7612207391107 | 4 m |
| 160 | **ACE/P-40X160** | | 7612207536577 | 4 m |
| 168 | **ACE/P-40X168** | | 7612207391268 | 4 m |

**Tube – standard. Black. Length: 2 m**

**40 mm**

| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
|---|---|---|---|---|
| **Other information** | | | | |
| **Thickness tolerance** | 6 mm: ±1.0 mm<br>9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm | | | |
| **Length tolerance** | ± 1.5% | | | |

**Tube – self-seal. Black. Length: 2 m**

| 9 mm | | | | | 13 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Pipe Ø [mm]** | **Item** | **Make-To-Order** | **EAN** | **Content [metric]** | **Pipe Ø [mm]** | **Item** | **Make-To-Order** | **EAN** | **Content [metric]** |
| 12 | **ACE/P-09X012-A** | | 7612207537222 | 234 m | 12 | **ACE/P-13X012-A** | * | 7612207566505 | 142 m |
| 15 | **ACE/P-09X015-A** | * | 7612207537239 | 200 m | 15 | **ACE/P-13X015-A** | | 7612207535785 | 122 m |
| 18 | **ACE/P-09X018-A** | | 7612207537253 | 166 m | 18 | **ACE/P-13X018-A** | | 7612207537666 | 104 m |
| 22 | **ACE/P-09X022-A** | | 7612207537260 | 140 m | 35 | **ACE/P-13X035-A** | | 7612207537697 | 60 m |
| 28 | **ACE/P-09X028-A** | | 7612207537277 | 98 m | 42 | **ACE/P-13X042-A** | | 7612207535853 | 50 m |
| 35 | **ACE/P-09X035-A** | | 7612207537543 | 76 m | 54 | **ACE/P-13X054-A** | | 7612207535860 | 38 m |
| 42 | **ACE/P-09X042-A** | | 7612207537550 | 64 m | 76 | **ACE/P-13X076-A** | | 7612207537734 | 28 m |
| 48 | **ACE/P-09X048-A** | * | 7612207537567 | 54 m | 89 | **ACE/P-13X089-A** | * | 7612207535877 | 20 m |
| 54 | **ACE/P-09X054-A** | * | 7612207537284 | 52 m | - | - | - | - | - |
| 60 | **ACE/P-09X060-A** | * | 7612207537291 | 48 m | - | - | - | - | - |

**Other information**

| | |
|---|---|
| **Thickness tolerance** | 6 mm: ±1.0 mm<br>9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32 mm: ±3.0mm |
| **Length tolerance** | ± 1.5% |

**Tube – self-seal. Black. Length: 2 m**

| 19 mm | | | | | 25 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Pipe Ø [mm]** | **Item** | **Make-To-Order** | **EAN** | **Content [metric]** | **Pipe Ø [mm]** | **Item** | **Make-To-Order** | **EAN** | **Content [metric]** |
| 15 | **ACE/P-19X015-A** | * | 7612207536768 | 72 m | 18 | **ACE/P-25X018-A** | * | 7612207536041 | 40 m |
| 18 | **ACE/P-19X018-A** | * | 7612207535921 | 60 m | 22 | **ACE/P-25X022-A** | * | 7612207537079 | 40 m |
| 22 | **ACE/P-19X022-A** | | 7612207535938 | 56 m | 28 | **ACE/P-25X028-A** | * | 7612207536058 | 36 m |
| 28 | **ACE/P-19X028-A** | | 7612207536942 | 48 m | 35 | **ACE/P-25X035-A** | * | 7612207536065 | 24 m |
| 35 | **ACE/P-19X035-A** | | 7612207535952 | 36 m | 42 | **ACE/P-25X042-A** | | 7612207536348 | 24 m |
| 42 | **ACE/P-19X042-A** | | 7612207535969 | 32 m | 48 | **ACE/P-25X048-A** | * | 7612207536089 | 20 m |
| 48 | **ACE/P-19X048-A** | | 7612207536980 | 28 m | 54 | **ACE/P-25X054-A** | * | 7612207536072 | 18 m |
| 54 | **ACE/P-19X054-A** | | 7612207535983 | 24 m | 60 | **ACE/P-25X060-A** | * | 7612207536355 | 18 m |
| 60 | **ACE/P-19X060-A** | | 7612207535990 | 24 m | 76 | **ACE/P-25X076-A** | * | 7612207536362 | 12 m |
| 76 | **ACE/P-19X076-A** | | 7612207537017 | 18 m | 89 | **ACE/P-25X089-A** | * | 7612207536102 | 12 m |
| 89 | **ACE/P-19X089-A** | * | 7612207536003 | 16 m | - | - | - | - | - |

**Other information**

| | |
|---|---|
| **Thickness tolerance** | 6 mm: ±1.0 mm<br>9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32 mm: ±3.0mm |

Tube – self-seal. Black. Length: 2 m

| 19 mm | | | | | 25 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| Length tolerance | | | ± 1.5% | | | | | | |

Coil. Black

| 6 mm | | | | | 9 mm | | | |
|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | EAN | Content [metric] |
| 6 | ACE/P-06X006/E | | 7612207537437 | 95 m | 6 | ACE/P-09X006/E | 7612207537475 | 70 m |
| 8 | ACE/P-06X008/E | | 7612207537444 | 85 m | 8 | ACE/P-09X008/E | 7612207537208 | 60 m |
| 10 | ACE/P-06X010/E | | 7612207537154 | 75 m | 10 | ACE/P-09X010/E | 7612207537215 | 50 m |
| 12 | ACE/P-06X012/E | | 7612207536621 | 65 m | 12 | ACE/P-09X012/E | 7612207536676 | 45 m |
| 15 | ACE/P-06X015/E | | 7612207537451 | 55 m | 15 | ACE/P-09X015/E | 7612207536683 | 40 m |
| 18 | ACE/P-06X018/E | * | 7612207537178 | 45 m | 18 | ACE/P-09X018/E | 7612207537505 | 38 m |
| 22 | ACE/P-06X022/E | | 7612207536638 | 40 m | 22 | ACE/P-09X022/E | 7612207537512 | 30 m |
| 28 | ACE/P-06X028/E | * | 7612207537468 | 30 m | 28 | ACE/P-09X028/E | 7612207537536 | 26 m |

Other information

| | |
|---|---|
| Thickness tolerance | 6 mm: ±1.0mm<br>9, 13 mm: ±1.5mm |
| Length tolerance | ±1.5% |

Coil. Black

13 mm

| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
|---|---|---|---|---|
| 6 | ACE/P-13X006/E | * | 7612207537611 | 45 m |
| 10 | ACE/P-13X010/E | | 7612207537628 | 35 m |
| 12 | ACE/P-13X012/E | | 7612207535778 | 32 m |
| 15 | ACE/P-13X015/E | | 7612207536713 | 28 m |
| 18 | ACE/P-13X018/E | | 7612207537659 | 27 m |
| 22 | ACE/P-13X022/E | | 7612207535808 | 26 m |
| 28 | ACE/P-13X028/E | | 7612207535822 | 20 m |

Other information

| | |
|---|---|
| Thickness tolerance | 6 mm: ±1.0mm<br>9, 13 mm: ±1.5mm |
| Length tolerance | ±1.5% |

Tube – lap seal. Black. Length: 2 m

| 19 mm | | | | | 25 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 15 | ACE/P-19X015-LS | * | 7612207536911 | 72 m | 35 | ACE/P-25X035-LS | * | 7612207548587 | 24 m |
| 18 | ACE/P-19X018-LS | * | 7612207536928 | 60 m | 42 | ACE/P-25X042-LS | * | 7612207547962 | 24 m |
| 22 | ACE/P-19X022-LS | * | 7612207536935 | 56 m | 48 | ACE/P-25X048-LS | * | 7612207548068 | 20 m |
| 28 | ACE/P-19X028-LS | * | 7612207536775 | 48 m | 60 | ACE/P-25X060-LS | * | 7612207548495 | 18 m |
| 35 | ACE/P-19X035-LS | * | 7612207536966 | 36 m | - | - | - | - | - |
| 42 | ACE/P-19X042-LS | * | 7612207535976 | 32 m | - | - | - | - | - |

Tube – lap seal. Black. Length: 2 m

| 19 mm | | | | | 25 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 48 | ACE/P-19X048-LS | * | 7612207536973 | 28 m | - | - | - | - | - |
| 76 | ACE/P-19X076-LS | * | 7612207537000 | 18 m | - | - | - | - | - |
| 89 | ACE/P-19X089-LS | * | 7612207537024 | 16 m | - | - | - | - | - |

| Other information | |
|---|---|
| Thickness tolerance | 19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| Length tolerance | ± 1.5% |

Tube – lap seal. Black. Length: 2 m

| 40 mm | | | | |
|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 28 | ACE/P-40X028-LS | * | 7612207548136 | 18 m |
| 42 | ACE/P-40X042-LS | * | 7612207537345 | 12 m |
| 54 | ACE/P-40X054-LS | * | 7612207536553 | 10 m |
| 60 | ACE/P-40X060-LS | * | 7612207537369 | 10 m |
| 64 | ACE/P-40X064-LS | * | 7612207536898 | 10 m |
| 76 | ACE/P-40X076-LS | * | 7612207537376 | 8 m |
| 89 | ACE/P-40X089-LS | * | 7612207536560 | 6 m |

| Other information | |
|---|---|
| Thickness tolerance | 19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| Length tolerance | ± 1.5% |

Tube – top-seal. Black. Length: 2 m

| 9 mm | | | | | 13 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 15 | ACE/P-09X015-TS | * | 7612207537499 | 200 m | | ACE/P-13X012-TS | * | 7612207567595 | |
| 18 | ACE/P-09X018-TS | * | 7612207537246 | 166 m | 15 | ACE/P-13X015-TS | * | 7612207537642 | 122 m |
| 22 | ACE/P-09X022-TS | * | 7612207537529 | 140 m | 18 | ACE/P-13X018-TS | * | 7612207535792 | 104 m |
| 28 | ACE/P-09X028-TS | * | 7612207536584 | 98 m | 54 | ACE/P-13X054-TS | * | 7612207548457 | 38 m |
| 35 | ACE/P-09X035-TS | * | 7612207548198 | 76 m | 64 | ACE/P-13X064-TS | * | 7612207548280 | 30 m |
| 42 | ACE/P-09X042-TS | * | 7612207548204 | 64 m | 76 | ACE/P-13X076-TS | * | 7612207548549 | 28 m |
| 48 | ACE/P-09X048-TS | * | 7612207548679 | 54 m | 89 | ACE/P-13X089-TS | * | 7612207548433 | 20 m |
| 54 | ACE/P-09X054-TS | * | 7612207548686 | 52 m | - | - | - | - | - |
| 60 | ACE/P-09X060-TS | * | 7612207548266 | 48 m | - | - | - | - | - |

| Other information | |
|---|---|
| Thickness tolerance | 9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| Length tolerance | ± 1.5% |

Tube – top-seal. Black. Length: 2 m

| 19 mm | | | | | 25 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 15 | ACE/P-19X015-TS | * | 7612207548303 | 72 m | 18 | ACE/P-25X018-TS | * | 7612207547931 | 40 m |
| 18 | ACE/P-19X018-TS | * | 7612207548310 | 60 m | 22 | ACE/P-25X022-TS | * | 7612207548396 | 40 m |
| 22 | ACE/P-19X022-TS | | 7612207548327 | 56 m | 28 | ACE/P-25X028-TS | * | 7612207548419 | 36 m |
| 28 | ACE/P-19X028-TS | * | 7612207547979 | 48 m | 35 | ACE/P-25X035-TS | * | 7612207548631 | 24 m |
| 35 | ACE/P-19X035-TS | | 7612207548334 | 36 m | 42 | ACE/P-25X042-TS | * | 7612207548013 | 24 m |
| 42 | ACE/P-19X042-TS | | 7612207548341 | 32 m | 48 | ACE/P-25X048-TS | * | 7612207548648 | 20 m |
| 48 | ACE/P-19X048-TS | * | 7612207548389 | 28 m | 64 | ACE/P-25X064-TS | * | 7612207548655 | 16 m |
| 54 | ACE/P-19X054-TS | * | 7612207548440 | 24 m | 76 | ACE/P-25X076-TS | * | 7612207548150 | 12 m |
| 64 | ACE/P-19X064-TS | * | 7612207547986 | 20 m | - | - | - | - | - |
| 76 | ACE/P-19X076-TS | * | 7612207547924 | 18 m | - | - | - | - | - |
| 89 | ACE/P-19X089-TS | * | 7612207548617 | 16 m | - | - | - | - | - |

| Other information | |
|---|---|
| Thickness tolerance | 9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| Length tolerance | ± 1.5% |

Tube – top-seal. Black. Length: 2 m

| 32 mm | | | | | 40 mm | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] | Pipe Ø [mm] | Item | Make-To-Order | EAN | Content [metric] |
| 18 | ACE/P-32X018-TS | * | 7612207548174 | 32 m | 35 | ACE/P-40X035-TS | * | 7612207536539 | 16 m |
| 22 | ACE/P-32X022-TS | * | 7612207548662 | 24 m | 48 | ACE/P-40X048-TS | * | | 14 m |
| 28 | ACE/P-32X028-TS | * | 7612207536591 | 24 m | - | - | - | - | - |
| 35 | ACE/P-32X035-TS | * | 7612207535730 | 18 m | - | - | - | - | - |
| 42 | ACE/P-32X042-TS | * | 7612207536508 | 18 m | - | - | - | - | - |
| 48 | ACE/P-32X048-TS | * | 7612207536263 | 18 m | - | - | - | - | - |
| 60 | ACE/P-32X060-TS | * | 7612207535747 | 10 m | - | - | - | - | - |
| 64 | ACE/P-32X064-TS | * | 7612207535716 | 10 m | - | - | - | - | - |
| 76 | ACE/P-32X076-TS | * | 7612207536843 | 10 m | - | - | - | - | - |
| 89 | ACE/P-32X089-TS | * | 7612207536850 | 10 m | - | - | - | - | - |

| Other information | |
|---|---|
| Thickness tolerance | 9, 13 mm: ±1.5 mm<br>19, 25 mm: ±2.5 mm<br>32, 40 mm: ±3.0mm |
| Length tolerance | ± 1.5% |

Roll - standard. Black. Packed in cartons, width: 1 m

| Item | Insulation thickness [mm] | Width [mm] | Length [m] | Make-To-Order | EAN | Content [metric] |
|---|---|---|---|---|---|---|
| ACE/P-06-99-E | 6 | 1.000 | 15 | | 7612207395471 | 15 m² |
| ACE/P-06-99-EP | 6 | 1.000 | 30 | | 7612207394566 | 30 m² |
| ACE/P-09-99-E | 9 | 1.000 | 10 | | 7612207395402 | 10 m² |
| ACE/P-09-99-EP | 9 | 1.000 | 22 | | 7612207394504 | 22 m² |
| ACE/P-13-99-E | 13 | 1.000 | 8 | | 7612207395532 | 8 m² |

Roll - standard. Black. Packed in cartons, width: 1 m

| Item | Insulation thickness [mm] | Width [mm] | Length [m] | Make-To-Order | EAN | Content [metric] |
|---|---|---|---|---|---|---|
| ACE/P-13-99-EP | 13 | 1.000 | 18 | | 7612207394573 | 18 m² |
| ACE/P-19-99-E | 19 | 1.000 | 6 | | 7612207395396 | 6 m² |
| ACE/P-19-99-EP | 19 | 1.000 | 14 | | 7612207394535 | 14 m² |
| ACE/P-25-99-E | 25 | 1.000 | 4 | | 7612207395495 | 4 m² |
| ACE/P-25-99-EP | 25 | 1.000 | 9 | | 7612207394528 | 9 m² |
| ACE/P-32-99-E | 32 | 1.000 | 3 | | 7612207395464 | 3 m² |
| ACE/P-32-99-EP | 32 | 1.000 | 7 | | 7612207394542 | 7 m² |
| ACE/P-40-99-E | 40 | 1.000 | 7 | | 7612207395501 | 7 m² |
| ACE/P-50-99-E | 50 | 1.000 | 5 | | 7612207395419 | 5 m² |

| Other information | |
|---|---|
| Thickness tolerance | 6 mm: ±1.0mm<br>7 - 19mm: ±1.5mm<br>>19mm: ±2.0mm |
| Length tolerance | ±1.5% |
| Width tolerance | ±2.0% |

Roll - standard self-adhesive. Black. Packed in cartons, width: 1 m

| Item | Insulation thickness [mm] | Width [mm] | Length [m] | Make-To-Order | EAN | Content [metric] |
|---|---|---|---|---|---|---|
| ACE/P-06-99-EA | 6 | 1.000 | 15 | | 7612207395518 | 15 m² |
| ACE/P-06-99-EAP | 6 | 1.000 | 30 | | 7612207394481 | 30 m² |
| ACE/P-09-99-EA | 9 | 1.000 | 10 | | 7612207395525 | 10 m² |
| ACE/P-09-99-EAP | 9 | 1.000 | 22 | | 7612207394498 | 22 m² |
| ACE/P-13-99-EA | 13 | 1.000 | 8 | | 7612207395549 | 8 m² |
| ACE/P-13-99-EAP | 13 | 1.000 | 18 | | 7612207394511 | 18 m² |
| ACE/P-19-99-EA | 19 | 1.000 | 6 | | 7612207395426 | 6 m² |
| ACE/P-19-99-EAP | 19 | 1.000 | 14 | | 7612207394559 | 14 m² |
| ACE/P-25-99-EA | 25 | 1.000 | 4 | | 7612207395433 | 4 m² |
| ACE/P-25-99-EAP | 25 | 1.000 | 9 | | 7612207394603 | 9 m² |
| ACE/P-32-99-EA | 32 | 1.000 | 3 | | 7612207395488 | 3 m² |
| ACE/P-32-99-EAP | 32 | 1.000 | 7 | | 7612207394474 | 7 m² |
| ACE/P-40-99-EA | 40 | 1.000 | 7 | * | 7612207395440 | 7 m² |
| ACE/P-40-99-EAP | 40 | 1.000 | 6 | | 7612207394610 | 6 m² |
| ACE/P-50-99-EA | 50 | 1.000 | 5 | | 7612207395457 | 5 m² |

| Other information | |
|---|---|
| Thickness tolerance | 6 mm: ±1.0mm<br>7-19 mm: ±1.5mm<br>>19 mm: ±2.0mm |
| Length tolerance | ±1.5% |
| Width tolerance | ±2.0% |

Tape – insulation. Black

| Item | Description | Thickness [mm] | Width [mm] | Length [m] | EAN | Content [quantity] |
|---|---|---|---|---|---|---|
| ACE/P-TAPE | ArmaFlex ACE Plus tape | 3 | 50 | 15 | 7612207537895 | 12 roll(s) |

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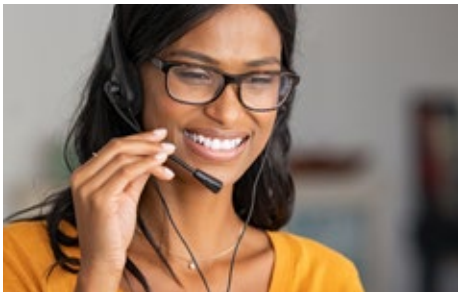



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