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T-FIT®
INSULATION
Fit to perform. **Fit** to last

T-FIT® Clean

Modular cleanroom insulation

Moulded from Zotefoams ZOTEK® F high-performance PVDF foam, T-FIT Clean is the leading insulation tailored for clean room environments in pharmaceutical, semiconductor and highly controlled production industries.

A Zotefoams plc brand

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T-FIT® Clean insulation is the leading choice in cleanroom and highly controlled manufacturing environments due to its fire-retardant properties and resistance to moisture and fungal growth. It consistently outperforms competitors and is the only insulation solution that meets internationally recognised cleanroom standards.

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What makes T-FIT Clean unique?

Advanced Technology

T-FIT® Insulation inherits the unique properties built into Zotefoams close cell foams. Particulate-, dust-, fibre-free and almost zero VOCs, inherently hydrophobic and highly resistant to fungal and mould growth providing exceptional performance in any environment.

Wide Temperature Range

Suitable for both chilled and hot processing applications with an operating range of -80°C to +160°C (effective up to 158°C at 5 bar steam pressure).

Easy Installation & Maintenance

Designed for fast, tool-free installation, including products that insulate straight runs, elbows, tee's, valves and other typical pipeline equipment, all within an ultra slim 6.35mm profile

Workforce Friendly

All T-FIT® products provide excellent protection from hot pipework for clothing, skin and equipment.
No harmful chemicals or particles are given off during installation or throughout the products long term use.

Leading Fire Safety Credentials

The only foam compliant with the FM4910 Global Cleanroom Materials Protocol. With an ASTM E84 independently tested by UL (to their UL723 certification) rating of 0/0 for surface burning of materials, T-FIT Clean delivers the lowest flame, smoke and toxicity rating of any polymer/ elastomer insulating product.

Environmentally Friendly

Market leading durability with 10-year refit intervals. Once installed, T-FIT is there to stay. No more regular 'stop-remove-dispose' refits with all the associated waste. Providing a low lifetime cost of ownership.

Installation made simple

T-FIT Clean Insulation offers a lightweight, flexible insulation solution that is easy to cut and quick to install. This system come with factory-installed closure tape and does not require use of personal protection equipment to install.

The supplied tapes, sealant, and adhesives facilitate the creation of tight, water vapor-resistant joints swiftly and easily, a crucial aspect for low-temperature applications where effective condensation control is imperative.

As a completely insulation solution T-FIT Clean also has a comprehensive range of fabricated insulation boxes to fit frequently used valves and flanges.

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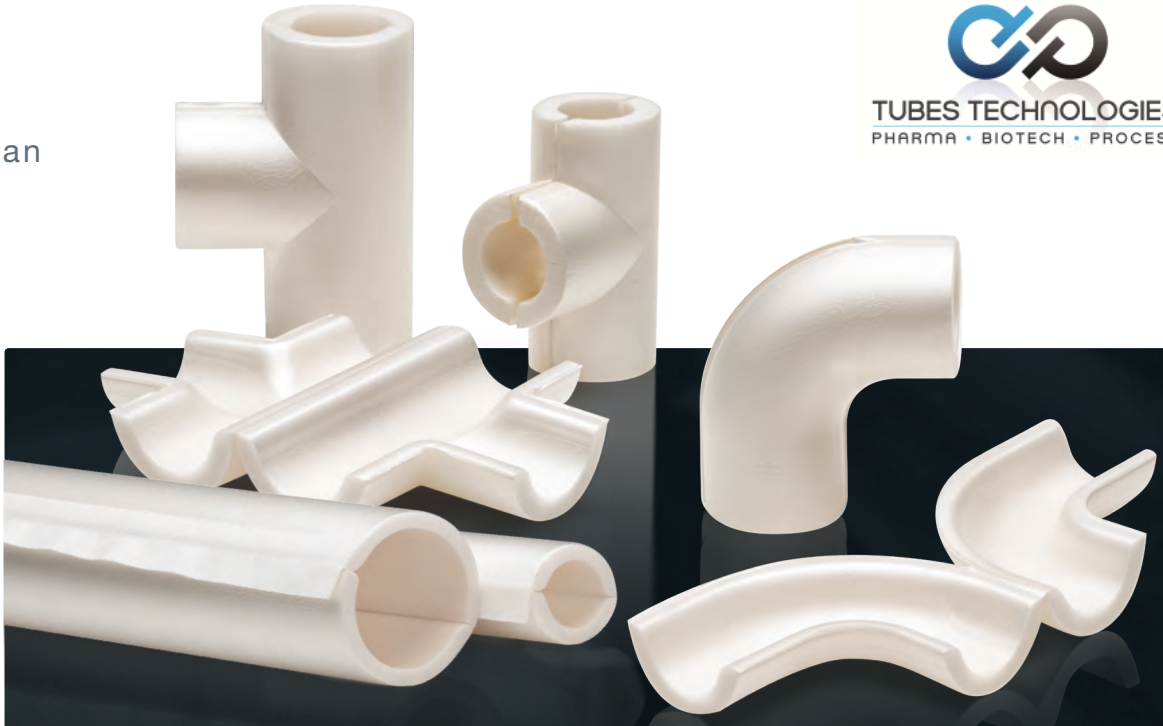

FOR THE MOST DEMANDING CLEANROOM AND MANUFACTURING ENVIRONMENTS

T-FIT® Clean insulation is engineered to excel in the harshest cleanroom and manufacturing conditions. With fire-retardant, moisture, and bacteria-resistant properties, it meets the strictest international standards. From -80°C to +160°C, T-FIT Clean handles both chilled and hot processing applications with ease. Its ultra-slim profile ensures high performance even in tight spaces, while its robust design guarantees fast, tool-free installation and long maintenance-free service life.

T-FIT® Clean offers the lowest flame, smoke, and toxicity ratings of any polymer/ elastomer insulation.
Trust T-FIT® Clean for the cleanest, safest, and most cost-effective insulation solution available for a long maintenance free service life.

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Pre-fabricated and custom insulation for every application

90 Degree Elbow

Clean Tee

Clean Reducer

Flange/Valve Box

Straight

Unequal Tee

T-FIT®
INSULATION

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Product Specification

T-FIT® Clean is manufactured from Zotefoams ZOTEK® F PVDF closed cell foam, the only foam product to be specification tested to FM4910 Clean Room Materials Protocol. The values provided in this brochure represent data gathered from random samples of our production of ZOTEK F PVDF from which T-FIT Clean is produced. These are given to the best of our knowledge and should be considered as guidance only for selecting a suitable grade for a given application.

Typical Values

Property	Test Standard	Typical Value
Material	Manufactured from an FDA-compliant resin	
Service Temperature	*See Notes Below	-80 °C to +160 °C (-112 °F to + 320 °F)
Thermal Conductivity		
Mean temperature of 0 °C (32 °F)	ISO 8301	0.031 W/m.K (0.22 Btu.in/h.ft2 °F)
Mean temperature of 25 °C (77 °F)		0.034 W/m.K (0.24 Btu.in/h.ft2 °F)
Mean temperature of 80 °C (176 °F		0.042 W/m.K (0.29 Btu.in/h.ft2 °F)
Fire Testing		
Euroclass	EN13501-1 Thickness: 6.35mm	B - s1, d0
UL723 / ASTM E84	Material Thickness Flaming Spread Index Smoke Developed Index	0.27” 0 10

AS 1530	Gauge mm	Ignitability	Spread of flame	Heat Evolved	Smoke Dev
	6.35	0	0	0	1
	12.7	0	0	0	0 -1

Water Vapour Transmission	ISO 1663:2007(E)	8750 µ Value
Outgassing	VDI 2083-P17	44.18µg/g
ISO-AMC class	ISO 14644-8**	-8.5
Fungus Resistance	ASTM G21-15	Full test complete No signs after 28 days
Leachable Ions	ASTM C-871	Pass
Factory Mutual 4910 Cleanroom Materials Flammability Test Protocol		Specification tested

* This information is based on internal testing and represents peak temperatures only. For continuous use or advice on product specification with respect to condensation control or temperatures below -80°c, please contact your local T-FIT® representative.

** Based on independent testing and commentary, full report available on request.

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T-FIT® Clean

Modular cleanroom insulation

Product Range

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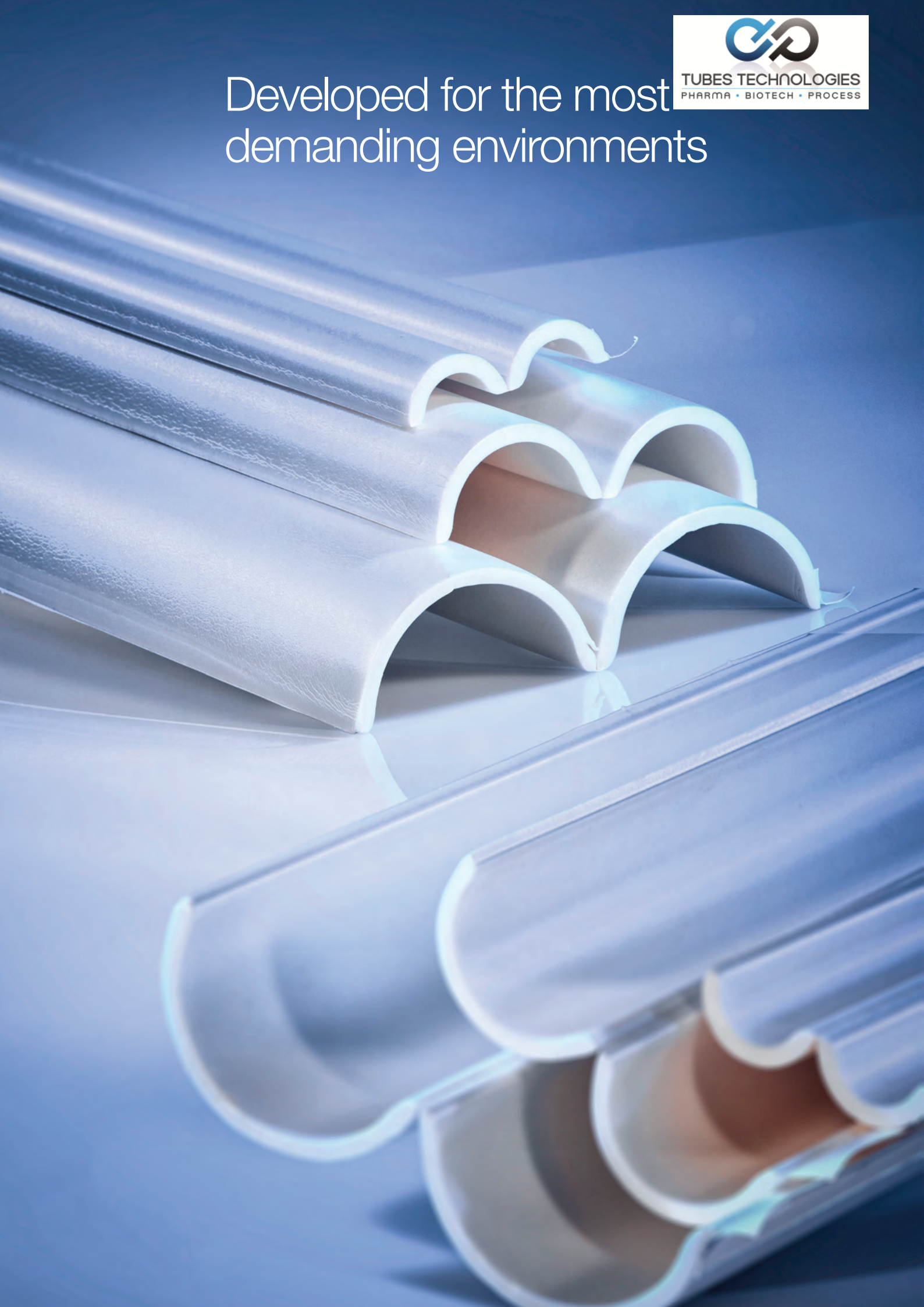
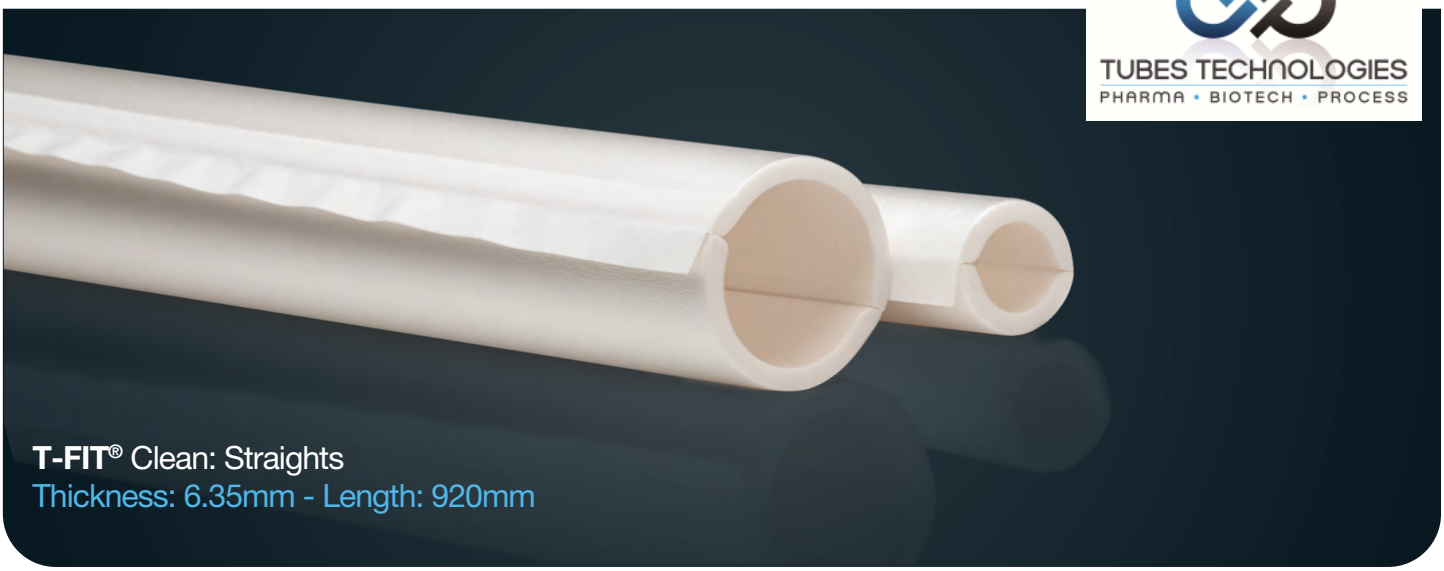
Developed for the most demanding environments





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T-FIT® Clean: Straights

Thickness: 6.35mm - Length: 920mm

Product Code	Compatible with Pipe outer diameter	inches	mm	Product Code	Compatible with Pipe outer diameter	inches	mm
With tape				**No tape**			
ZAFCK99930	ASME BPE	0.25	6.35	**ZAFCK99930-NT**	ASME BPE	0.25”	6.35
ZAFCK06381	ASME BPE	0.375	9.53	**ZAFCK06381-NT**	ASME BPE	0.375”	9.53
ZAFCK06382	ASME BPE	0.5	12.70	**ZAFCK06382-NT**	ASME BPE	0.5”	12.70
ZAFCK06383	ASME BPE	0.75	19.05	**ZAFCK06383-NT**	ASME BPE	0.75”	19.05
ZAFCK06384	ASME BPE	1.0	25.40	**ZAFCK06384-NT**	ASME BPE	1.0”	25.40
ZAFCK06385	ASME BPE	1.5”	38.10	**ZAFCK06385-NT**	ASME BPE	1.5”	38.10
ZAFCK06386	ASME BPE	2.0”	50.80	**ZAFCK06386-NT**	ASME BPE	2.0”	50.80
ZAFCK06387	ASME BPE	2.5”	63.50	**ZAFCK06387-NT**	ASME BPE	2.5”	63.50
ZAFCK06388	ASME BPE	3.0”	76.20	**ZAFCK06388-NT**	ASME BPE	3.0”	76.20
ZAFCK06787	ASME BPE	3.5”	88.90	**ZAFCK06522-NT**	ASME BPE)	4.0”	101.60
ZAFCK06522	ASME BPE	4.0”	101.60				
With tape				**No tape**			
ZAFCK06381-D	DIN 11850	DN8	10.00	**ZAFCK06381-D-NT**	DIN 11850	DN8	10.00
ZAFCK06382-D	DIN 11850	DN10	13.00	**ZAFCK06382-D-NT**	DIN 11850	DN10	13.00
ZAFCK06383-D	DIN 11850	DN15	19.00	**ZAFCK06383-D-NT**	DIN 11850	DN15	19.00
ZAFCK06888	DIN 11850	DN20	23.00	**ZAFCK06888-NT**	DIN 11850	DN20	23.00
ZAFCK06889	DIN 11850	DN25	29.00	**ZAFCK06889-NT**	DIN 11850	DN25	29.00
ZAFCK06890	DIN 11850	DN32	35.00	**ZAFCK06890-NT**	DIN 11850	DN32	35.00
ZAFCK06503-D	DIN 11850	DN40	41.00	**ZAFCK06503-D-NT**	DIN 11850	DN32	35.00
ZAFCK06891	DIN 11850	DN50	53.00	**ZAFCK06891-NT**	DIN 11850	DN50	53.00
ZAFCK06297	DIN 11850	DN65	70.00	**ZAFCK06297-NT**	DIN 11850	DN65	70.00
ZAFCK06892	DIN 11850	DN80	85.00	**ZAFCK06892-NT**	DIN 11850	DN80	85.00
ZAFCK06893	DIN 11850	DN100	104.00				
With tape				**No tape**			
ZAFCK06381-EU	ISO 1127	DN 6	10.20	**ZAFCK06381-EU-NT**	ISO 1127	DN6	10.20
ZAFCK06382-EU	ISO 1127	DN 8	13.50	**ZAFCK06382-EU-NT**	ISO 1127	DN8	13.50
ZAFCK06500	ISO 1127	DN 10	17.20	**ZAFCK06500-NT**	ISO 1127	DN10	17.20
ZAFCK06501	ISO 1127	DN 15	21.30	**ZAFCK06501-NT**	ISO 1127	DN15	21.30
ZAFCK06502	ISO 1127	DN 20	26.90	**ZAFCK06502-NT**	ISO 1127	DN20	26.90
ZAFCK06457	ISO 1127	DN25	33.70	**ZAFCK06457-NT**	ISO 1127	DN25	33.70
ZAFCK06503	ISO 1127	DN32	42.40	**ZAFCK06503-NT**	ISO 1127	DN32	42.40
ZAFCK06564	ISO 1127	DN40	48.30	**ZAFCK06564-NT**	ISO 1127	DN40	48.30
ZAFCK06835	ISO 1127	DN50	60.30	**ZAFCK06835-NT**	ISO 1127	DN50	60.30
ZAFCK06388-EU	ISO 1127	DN65	76.10	**ZAFCK06388-EU-NT**	ISO 1127	DN65	76.10
ZAFCK06525	ISO 1127	DN80	88.90	**ZAFCK06525-NT**	ISO 1127	DN80	88.90

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T-FIT® Clean: Elbows
Thickness: 6.35mm

T-FIT® Clean: Tees
Thickness: 6.35mm

Product Code	Compatible with Pipe outer diameter	inches	mm
ZAFCK05880	ASME BPE	0.375”	9.53
ZAFCK05814	ASME BPE	0.5”	12.70
ZAFCK05815	ASME BPE	0.75”	19.05
ZAFCK05816	ASME BPE	1.0	25.40
ZAFCK05615	ASME BPE	1.5”	38.10
ZAFCK05616	ASME BPE	2.0”	50.80
ZAFCK05898	ASME BPE	2.5”	63.50
ZAFCK05899	ASME BPE	3.0”	76.20
ZAFCK06878	ASME BPE	3.5”	88.90
ZAFCK06523	ASME BPE	4.0”	101.60
ZAFCK05880-EU	ISO 1127	DN6	10.20
ZAFCK05814-EU	ISO 1127	DN8	13.50
ZAFCK06512	ISO 1127	DN10	17.20
ZAFCK06513	ISO 1127	DN15	21.30
ZAFCK06582	ISO 1127	DN20	26.90
ZAFCK06515	ISO 1127	DN25	33.70
ZAFCK06516	ISO 1127	DN32	42.40
ZAFCK06517	ISO 1127	DN40	48.30
ZAFCK06518	ISO 1127	DN50	60.30
ZAFCK05899-EU	ISO 1127	DN65	76.10
ZAFCK06816	ISO1127	DN80	88.90
ZAFCK05880-D	DIN 11850	DN8	10.00
ZAFCK05814-D	DIN 11850	DN10	13.00
ZAFCK05815-D	DIN 11850	DN15	19.00
ZAFCK06874	DIN 11850	DN20	23.00
ZAFCK06875	DIN 11850	DN25	29.00
ZAFCK06876	DIN 11850	DN32	35.00
ZAFCK06516-D	DIN 11850	DN40	41.00
ZAFCK06877	DIN 11850	DN50	53.00
ZAFCK05238	DIN 11850	DN65	70.00
ZAFC06878-D	DIN 11850	DN80	85.00

Product Code	Compatible with Pipe outer diameter	inches	mm
ZAFCK05900	ASME BPE	0.375”	9.53
ZAFCK05743	ASME BPE	0.5”	12.70
ZAFCK05744	ASME BPE	0.75”	19.05
ZAFCK05745	ASME BPE	1.0”	25.40
ZAFCK05746	ASME BPE	1.5”	38.10
ZAFCK05747	ASME BPE	2.0”	50.80
ZAFCK05901	ASME BPE	2.5”	63.50
ZAFCK05902	ASME BPE	3.0”	76.20
ZAFCK05900-EU	ISO 1127	DN6	10.20
ZAFCK05743-EU	ISO 1127	DN8	13.50
ZAFCK06506	ISO 1127	DN10	17.20
ZAFCK06507	ISO 1127	DN15	21.30
ZAFCK06583	ISO 1127	DN20	26.90
ZAFCK06508	ISO 1127	DN25	33.70
ZAFCK06509	ISO 1127	DN32	42.40
ZAFCK06510	ISO 1127	DN40	48.30
ZAFCK06511	ISO 1127	DN50	60.30
ZAFCK05902-EU	ISO 1127	DN65	76.10
ZAFCK05743-D	DIN 11850	DN10	13.00
ZAFCK05744-D	DIN 11850	DN15	19.00
ZAFCK06509-D	DIN 11850	DN40	41.00
ZAFCK05900-D	DIN 11850	DN8	10.00
ZAFCK06879	DIN 11850	DN20	23.00
ZAFCK06880	DIN 11850	DN25	29.00
ZAFCK06881	DIN 11850	DN32	35.00
ZAFCK06882	DIN 11850	DN50	53.00
ZAFCK06883	DIN 11850	DN65	70.00

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For the cleanest, safest, and most cost-effective insulation, choose **T-FIT®** Clean

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Zotefoams plc Management systems are covered by the following:

AEO UK Authorised Economic Operator

Quality
FM 01870
ISO 9001:2015

Safety
OHS 52538
ISO 45001: 2018

Environment
EMS 36270
ISO 14001:2015

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The only insulation solution that meets internationally recognised cleanroom standards

T-FIT® INSULATION

Contact us
t-fitsales@zotefoams.com

t-fit.org

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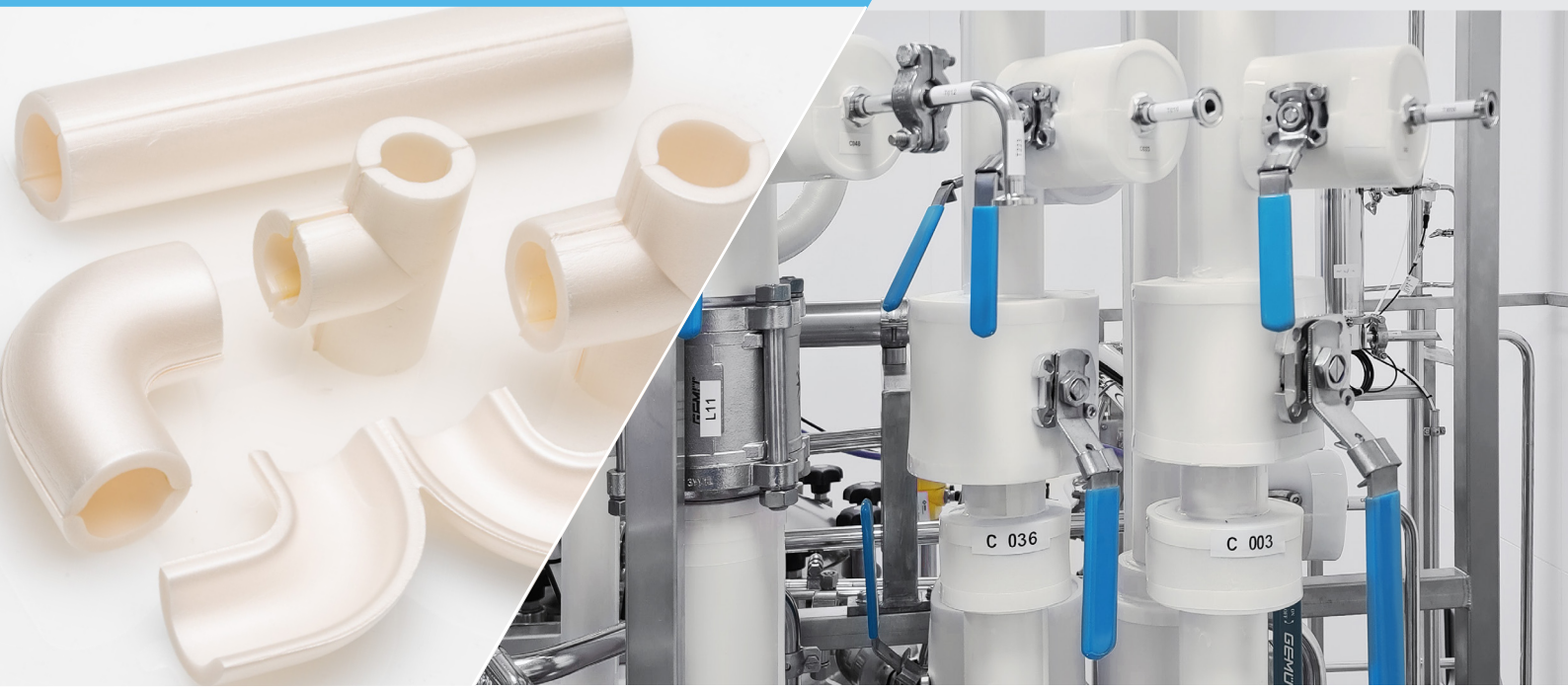

T-FIT® Clean, moulded from ZOTEK® F high-performance PVDF foam, is the leading insulation tailored for clean room environments found in pharmaceutical, semiconductor and highly controlled production environments.

T-FIT® Clean can be used to address condensation control, energy conservation, or provide personal protection, and can be installed around internal or external hot/cold, waste, chilled, specialist process, refrigeration and HVAC pipework.

Product and tape specifications

Sealant/Adhesive specifications

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tubes-technologies.com

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Installation Guide

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Before starting installation

1 Suitable gloves must be worn at all times when handling T-FIT® Clean to ensure the product remains clean, and free of dirt, dust or grease that can be easily transferred during handling with unprotected hands.

2 T-FIT® Clean should not be installed in extreme temperatures or high levels of humidity as these conditions can adversely impact the performance of tapes and sealant. In general, minimum environmental temperatures should not fall below 15°C / 60°F, while max temperatures should not exceed 40°C / 105°F.

3 Pipework or any surface to be insulated should be free of contaminants, oil, grease, water/moisture etc. Any foreign matter must be wiped clean ahead of installation.

4 T-FIT® Clean is packed in bags and should be removed from the packaging only prior to installation. Care should be taken to keep the installation environment as clean and dust free as possible.

5 T-FIT® Clean should not be installed on live plant or processes, whether this is hot,cold pipework or ducting. Pipe/duct work should be allowed to return to ambient temperature before any installation takes place.

6 T-FIT® Clean should not be stretched to fit, please ensure the correct dimensions prior to installation.

7 Use of sealant on all joints is considered mandatory on T-FIT® Clean installation, and is used to seal all longitudinal joints, butt joints between tubes, assembly of elbows, tee's etc. and fitting of insulation boxes.

When applying sealant to joints, ensure that the insulation does not accidentally bond to the pipework. T-FIT Clean insulation should be able to expand and contract independently relative to the pipework.

8 Tubes and sheet should be installed under compression, with insulation cut so that a slight excess of material pushes the joints closed.

9 In general, fittings around elbows, tee's etc. should be installed first, followed by straights, fitted under compression as detailed above. Insulation boxes are the last part to be installed and this completes installation of T-FIT® Clean.

10 In hot and humid environments, tapes should be applied as quickly as possible to T-FIT® Clean following removal of the release/backing film, to prevent premature drying of adhesives.

11 T-FIT® Clean tapes are pressure sensitive activated (PSA). To ensure adhesion, a constant pressure must be applied along the entire length of the applied tape onto the T-FIT product.

12 Take care to ensure an even and consistent application of sealant is applied when making joins and ensure all gaps are fully adhered and sealed. This is especially important for cold/chilled lines, where contact between ambient air and the surface of the cold/chilled pipework can create condensation.

13 Longitudinal seams running the length of the tube and butt joints between tubes should be made with sealant and secured with tape.

14 T-FIT® Clean is a closed cell material so water vapour barrier/outer cladding/jacketing systems are not required. However, care should be taken to ensure all seams and joints are fully sealed and vapour tight around elbows, tee's and insulation boxes etc.

15 If needed, fabrication of fittings, elbows, tee's, etc. should take place in a suitable workshop/workstation type environment. T-FIT® Clean recommended sealant typically requires 6 hours to cure. Planning and fabrication of fittings ahead of install is highly recommended, making installation on site much faster, easier, and improving overall workmanship.

16 With care, as an alternative to 15. above, fittings can be assembled around elbows, tee's etc, using existing pipework as a former. As an example, a segmented bend can be built up around the actual bend one segment at a time, ensuring each segment is adhered to each other with the use of sealant. Tape around each segment joint should be applied after the sealant has cured, usually 6 hours after initial application.

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Installation Guide

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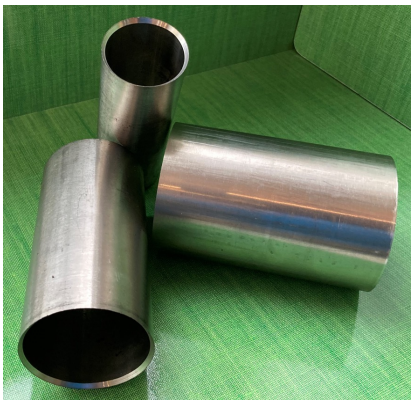
Tools required

Long bladed knife ~300mm/12", straight edged, non-serrated, for cutting tubes in a mitre block.

Mitre block which allows for accurate cutting of tubes at 90°, 45°, 22.5°, 15°, 11.25° angles, simplifying fabrication of segmented elbows.

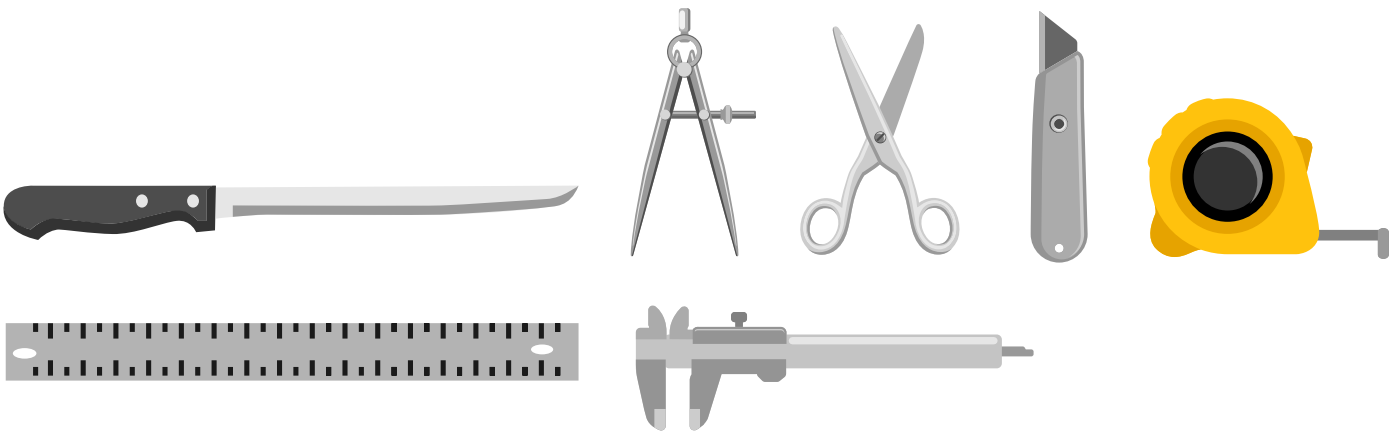
General measuring tools, including flexible tape measure, steel ruler, callipers to measure tube diameter, straight edge to cut against, marker pen, small knife, scissors.

Where holes need to be cut into T-FIT products, for example fabricating a tee fitting or installing an insulation box, such openings are easy to make with the aid of a sharpened tube of appropriate size.



Preparation

1. Always use sharp knives and cutting equipment, with good quality tools in general.
2. T-FIT® Clean products should be installed in a dust free, clean environment, with pipework cleaned prior to install.
3. Installation requires the use of tapes and sealant to make all good joints. Special care must be taken to ensure the insulation surfaces remain free of dust/dirt.
4. Reminder - T-FIT® Clean tapes are pressure sensitive activated (PSA). To ensure adhesion, a constant pressure must be applied along the entire length of the cladding/tape.
5. Reminder - Care must be taken to ensure an even and consistent application of sealant is applied where required, with care taken to ensure all gaps are fully adhered and sealed.
6. Reminder - Installation of fittings around bends, elbows, etc. should be the starting point of any installation, followed by installation of straights, cut to length and installed under compression, followed by fitting of insulation boxes.
7. Reminder – always wear gloves when handling T-FIT® Clean. Remove from packing only when ready to install.



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Typical order of work

a Review installation and estimate quantities of fittings (e.g. elbows, bends etc.) required to complete the install.

b At the work site, ensure the plant is not active and pipework has reached ambient temperature.

c Check pipework is generally clean and free of dust and contaminants. Wipe down as required to ensure cleanliness.

d Install fittings, elbows and tee's before straights.

e Straights should be cut slightly oversize to allow insulation to be fitted under compression, pushing butt joins closed.

f Insulation boxes complete the T-FIT® Clean installation process.

T-FIT® Clean
Installation Guide

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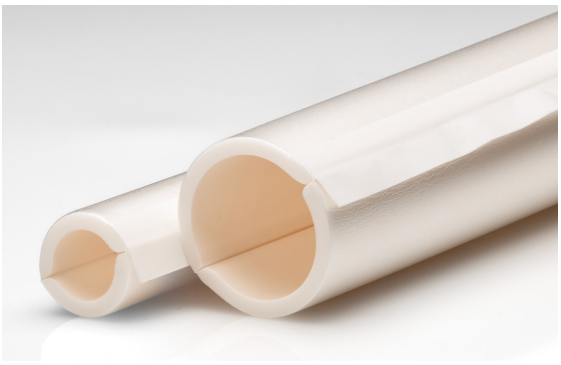
Further details are available at T-FIT.org with video showing the install process

1: Straights

In general, elbows, tee's, etc. should be installed first. Straight lengths are then measured and cut to fit tightly under compression against the installed fittings.



1.1 Using a sharp knife and mitre block, cut the Hygiene tube to length as required. The mitre block helps to ensure an accurate perpendicular cut.

1.2 Unpick a short length of the cladding adhesive tape liner at each end – this is easier to carry out ahead of installation around pipework, then install insulation around pipework.

1.3 Apply sealant down the length of the tube, and to the ends of the tube to make good butt joints.

1.4 Use of sealant on all joints is considered mandatory for T- FIT® Clean installation, and is used to seal all longitudinal joints butt joints between tubes, assembly of elbows, tee's etc., and fitting of insulation boxes.

1.5 Remove the tape backing liner to expose the adhesive.

1.6 Applying even pressure over the whole length of the tape, squeeze the join to secure the joint.

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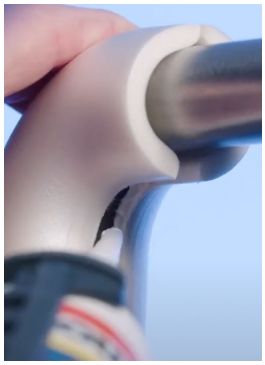
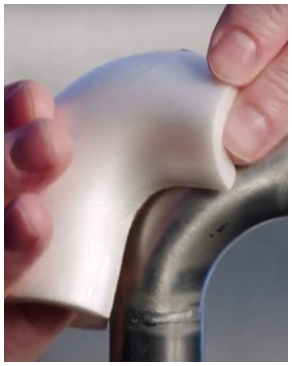
2: 90 degree elbow

90-degree elbows are supplied as moulded parts.

2.1 Apply sealant to the outer edge of the fittings, close up the elbow and leave for ~6 hours for the sealant to cure.





2.2 After the sealant has cured the fitting is installed around the elbow, and sealant applied to the internal edges.

2.3 The fitting is secured with tape cut down to 12.7mm width, applied around the throat of the elbow.

Tape should not be applied on inner seam.

Apply tape diagonally across Elbows, after prepping Elbow seams with ZAXX9525-01 and apply tape to both butt ends.

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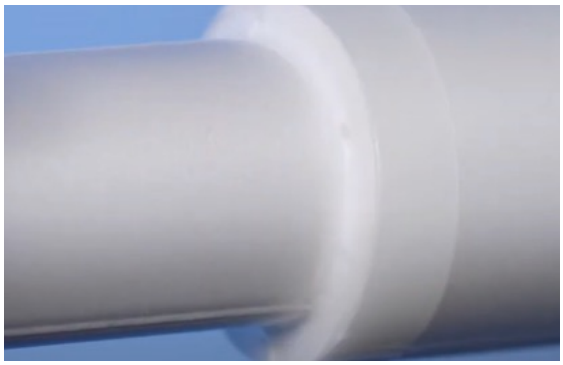
4: Reducer

Changes in diameter of pipework can often be accommodated by careful selection of existing T-FIT® Clean insulation tube sizes. Example a 50mm/2" pipe reducing to 38mm/1.5" can be insulated with 50mm and 38mm T-Fit® Clean tubes respectively, given wall thickness of 6.35mm/¼", the 50mm Clean can easily overlap the smaller 38mm insulation.

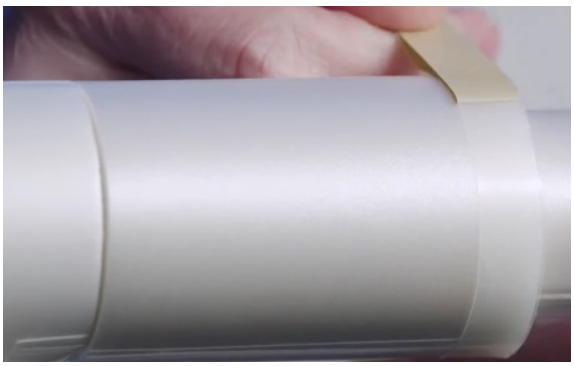


4.1 Carefully apply sealant to the longitudinal join of the smaller insulation tube, in this example the 38mm / 1.5" tube.

4.2 Install the prepared T-FIT® Clean tube.

4.3 Carefully apply sealant/adhesive to the longitudinal join, and the end of the second insulation tube, preparing the butt joint to the next item of insulation. In this example the 50mm / 2" tube.

4.4 Install the second prepared T-FIT® Clean tube.



4.5 Apply tape to both ends of the larger, overlapping tube.

4.6 Apply sealant to the overlapping join between the smaller and larger T-FIT® Clean tubes.

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5: Tee

Insulating tee's starts with preparing a moulding part

5.1 Apply tape cut down to 12.7mm width to the tee fitting.

5.2 Carefully apply sealant to the fitting edges.

5.3 Install the prepared tee fitting.

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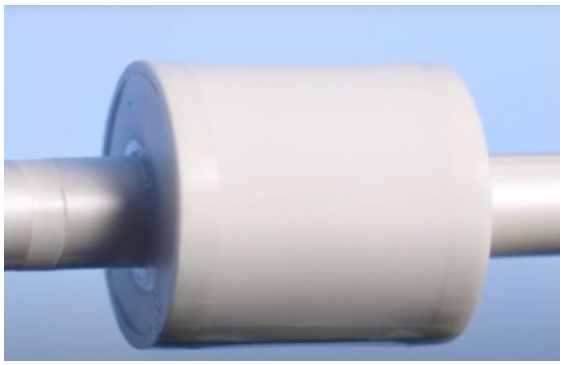
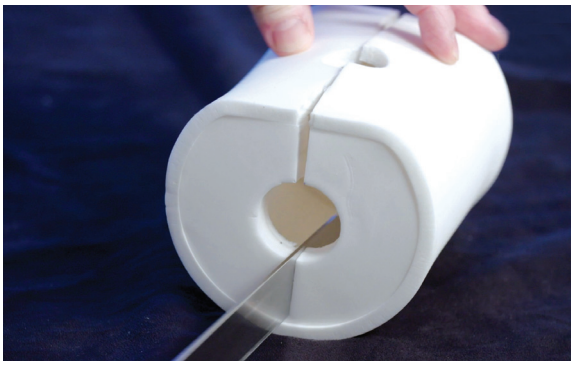
6: Insulation Box

T-FIT® Insulation boxes can be used to insulate valves, flanges and other pipeline equipment. Available in various sizes, please contact the T-FIT team to select insulation boxes of appropriate dimensions.



6.1 Using a sharpened piece of tube (see page 5), cut a hole in each end of the Insulation box appropriate to the outer diameter of the insulated pipework into which the Insulation box is to be fitted.

6.2 For fitting around a valve as per example, cut a third hole into the top of the Insulation box to accommodate the valve stem.



6.3 Carefully cut the Insulation box down the centre stopping just short of the bottom layer of insulation.

6.4 Open the Insulation box and install around the valve, closing the two halves to complete the installation.

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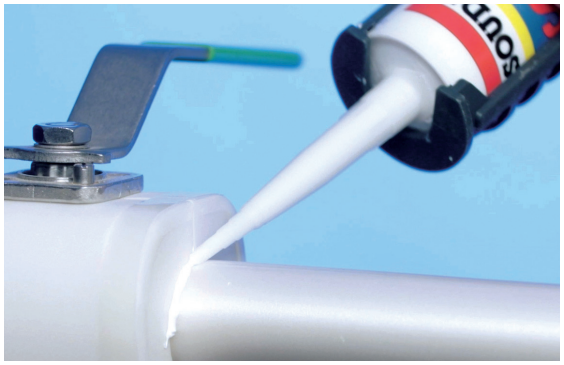
6: Insulation Box

Continued

Further details are available at T-FIT.org, with video showing the install process



6.5 Apply sealant to the joints around the box, and tape to the ends to firmly secure in place.

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T-FIT® PVDF Tape

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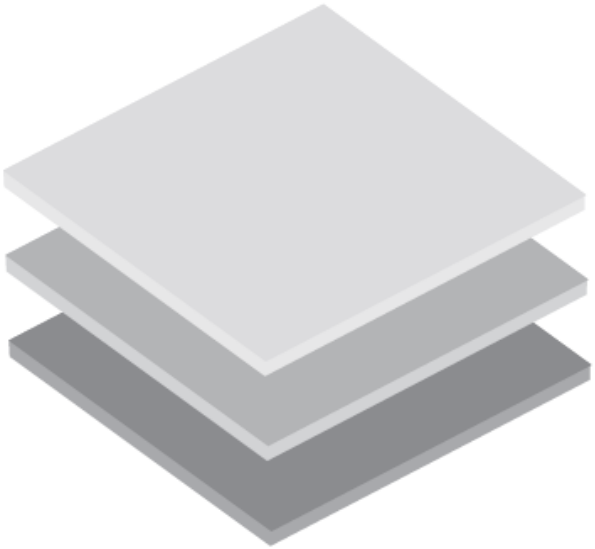
T-FIT PVDF Tape Technical Information

This adhesive tape product is designed specifically for T-FIT® Installations.
Comprised of a PVDF polymer film and a high-performance pressure sensitive adhesive.
Especially designed for chemical and flammability resistance.

Product Description

Product Code: ZAXX9164



Roll Construction:

- 0.003” PVDF polymer film
- 0.003” white high-performance adhesive
- Polymeric release liner
- Total Tape Thickness 0.011” (including release liner)

Roll Dimensions: Product supplied as the following:

Current Product supplied as the following:

- 1” (25,4mm) wide x 60 linear yards long (54.8m)
- Supplied on a 3” plastic core
- Release liner facing outward, film inward

Tape Format:

- Standard format of solid back or non-split liner
- Also available as a “split-back” or 50/50 split release line

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Technical Information

Property (Per ASTM D903 Al Foil to Al Plate)	Minimum Average	Maximum Individual
Peel Strength (PIW) at 70°F ± 5°F plus 7 days after 7 days aging at 70°F ± 5°F	10	9
Peel Strength (PIW) 1 day at 70°F ± 5°F plus 6 days at 95 to 100% relative humidity at 120°F ± 5°F	15	14
Peel Strength (PIW) 1 day at 70°F ± 5°F plus 6 days exposure at 160°F ± 5°F	18.5	7.5

Static load creep properties (Per ASTM D903 Al Foil to Al Plate)	Creep Time (hrs)	Minimum Average	Maximum Individual
Creep distance (inches per pound/inch of width) at 70°F ± 5°F plus 7 days after 7 days aging at 70°F ± 5°F	24	1	2
Creep distance (inches per pound/inch of width) 1 day at 70°F ± 5°F plus 6 days at 95 to 100% relative humidity at 120°F ± 5°F	24	1	2
Creep distance (inches per pound/inch of width) at 1 day at 70°F ± 5°F plus 6 days exposure at 160°F ± 5°F	24	0.5	2

Thermal Performance:

- Film & Adhesive is recommended to temperatures up to 212 °F / (100 °C)

Storage Guidelines:

- Shelf life of 18 months from date of manufacture
- Film & Adhesive is recommended to be stored at temperatures between 5 - 32°C / 40 - 90°F

AZOTE® / ZOTEK® / T-FIT® / MuCell®

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Application Notes:

- Bonding surfaces must be clean and dry
- Once release liner is removed the tape must be applied immediately

Application guidelines:

- Keep the tape in its original packaging until use.
- Being a pressure sensitive tape, for optimum results, an even pressure must be applied to the whole taped area to create the best possible bond between tape and substrates.
- The tape should be applied to clean and dry surfaces
- The best application conditions are obtained between temperatures between 15°C to 40°C (60°F to 105°F)

Regulatory Data:

- PVDF Film meets FDA 177.2510 & 177.2600 Repeated Contact with Food, 177.1520 Single-use Adjuvant for use in Polyolefins 1% Concentration

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