

t-fit.org

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

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.**



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

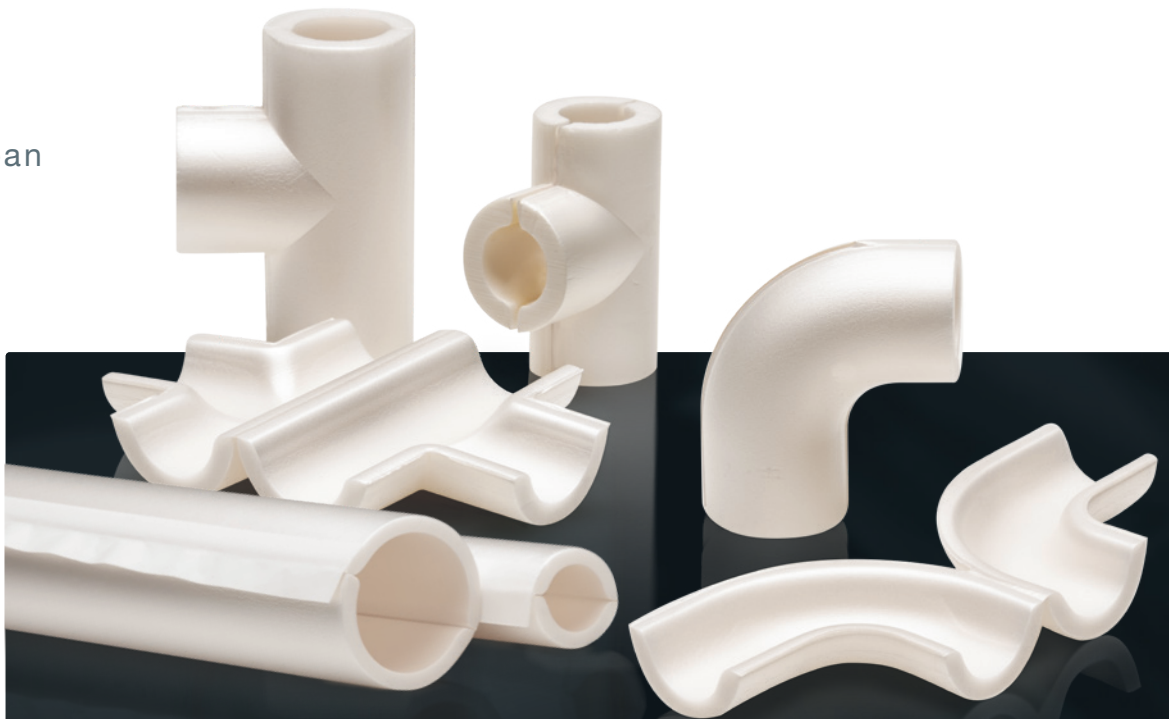
T-FIT Clean Insulation offers a lightweight, flexible insulation solution that is easy to cut and quick to install. This system come with factory-installed closure tape and does not require use of personal protection equipment to install.

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.



T-FIT Clean



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 $+160^{\circ}\text{C}$, 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.



Pre-fabricated and custom insulation for every application



90 Degree Elbow



Clean Tee



Clean Reducer



Flange/Valve Box



Straight





Unequal Tee

Product Specification

T-FIT® Clean is manufactured from Zotefoams ZOTEK® F42 HT LS fine, 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 F42HTLS (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	ISO 8301	Mean temperature of 0 °C (32 °F) 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	EN13501-1 Thickness: 6.35mm	B - s1, d0
UL723 / ASTM E84	Material Thickness	0.27"
	Flaming Spread Index	0
	Smoke Developed Index	10
AS 1530	Gauge mm	Ignitability
	6.35	0
	12.7	0
	Spread of flame	Heat Evolved
	0	0
	0	0
	Smoke Dev	
	1	
	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.

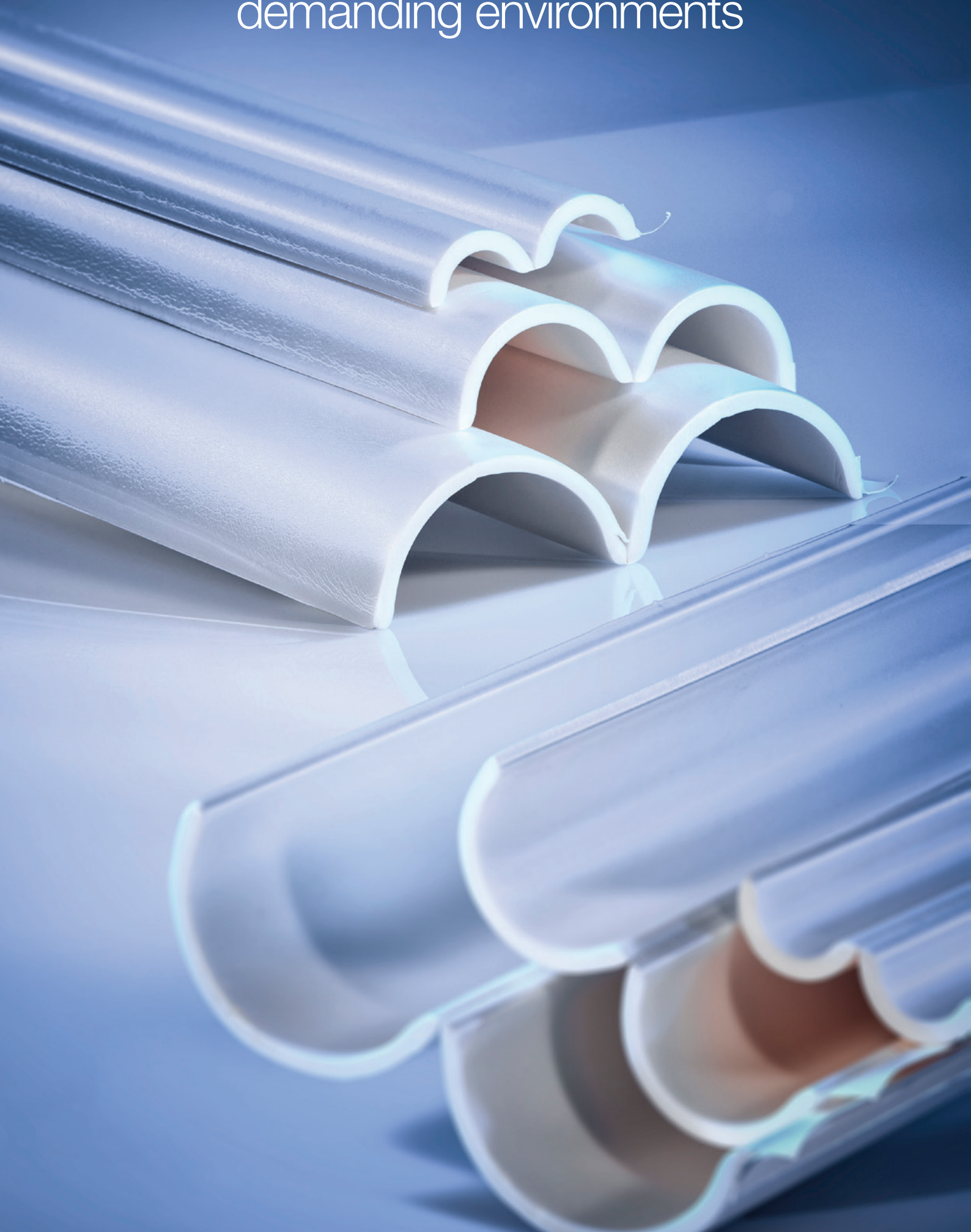


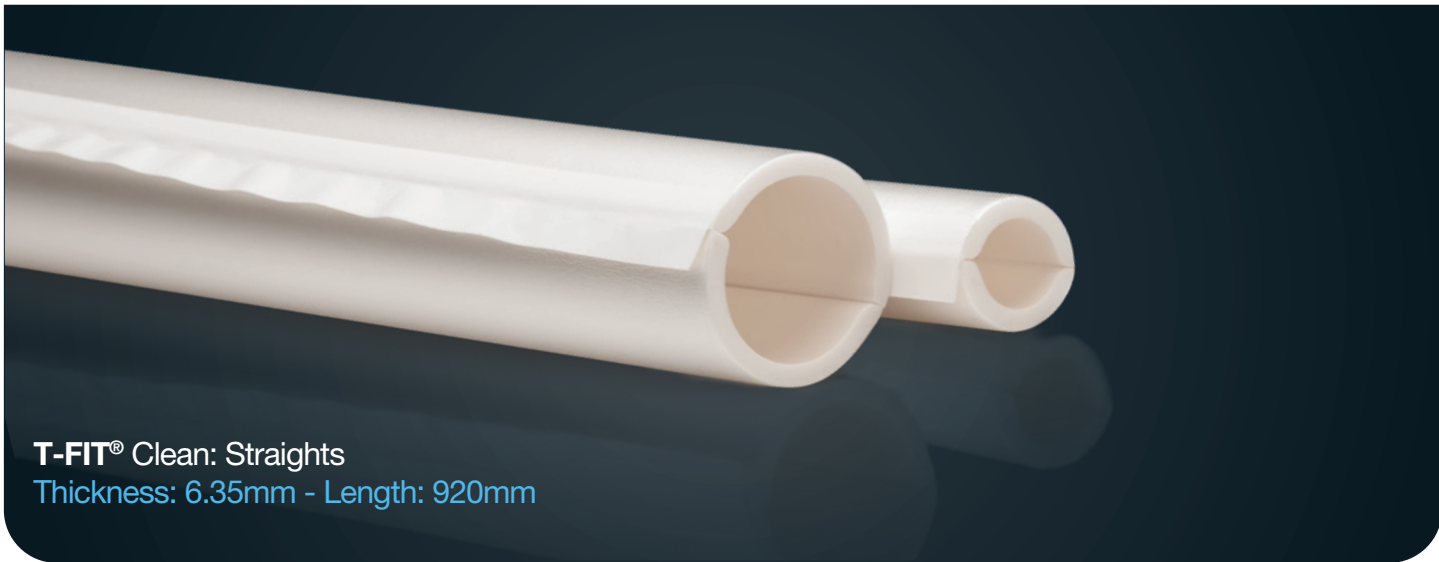
T-FIT® Clean

Modular cleanroom insulation

Product Range

Developed for the most
demanding environments





T-FIT® Clean: Straights
 Thickness: 6.35mm - Length: 920mm

Product Code	Compatible with Pipe outer diameter		Product Code	Compatible with Pipe outer diameter	
	inches	mm		inches	mm

With tape

ZAFCK99930	ASME BPE	0.25	6.35
ZAFCK06381	ASME BPE	0.375	9.53
ZAFCK06382	ASME BPE	0.5	12.70
ZAFCK06383	ASME BPE	0.75	19.05
ZAFCK06384	ASME BPE	1.0	25.40
ZAFCK06385	ASME BPE	1.5"	38.10
ZAFCK06386	ASME BPE	2.0"	50.80
ZAFCK06387	ASME BPE	2.5"	63.50
ZAFCK06388	ASME BPE	3.0"	76.20
ZAFCK06787	ASME BPE	3.5"	88.90
ZAFCK06522	ASME BPE	4.0"	101.60

No tape

ZAFCK99930-NT	ASME BPE	0.25"	6.35
ZAFCK06381-NT	ASME BPE	0.375"	9.53
ZAFCK06382-NT	ASME BPE	0.5"	12.70
ZAFCK06383-NT	ASME BPE	0.75"	19.05
ZAFCK06384-NT	ASME BPE	1.0"	25.40
ZAFCK06385-NT	ASME BPE	1.5"	38.10
ZAFCK06386-NT	ASME BPE	2.0"	50.80
ZAFCK06387-NT	ASME BPE	2.5"	63.50
ZAFCK06388-NT	ASME BPE	3.0"	76.20
ZAFCK06522-NT	ASME BPE)	4.0"	101.60

With tape

ZAFCK06381-D	DIN 11850	DN8	10.00
ZAFCK06382-D	DIN 11850	DN10	13.00
ZAFCK06383-D	DIN 11850	DN15	19.00
ZAFCK06888	DIN 11850	DN20	23.00
ZAFCK06889	DIN 11850	DN25	29.00
ZAFCK06890	DIN 11850	DN32	35.00
ZAFCK06503-D	DIN 11850	DN40	41.00
ZAFCK06891	DIN 11850	DN50	53.00
ZAFCK06297	DIN 11850	DN65	70.00
ZAFCK06892	DIN 11850	DN80	85.00
ZAFCK06893	DIN 11850	DN100	104.00

No tape

ZAFCK06381-D-NT	DIN 11850	DN8	10.00
ZAFCK06382-D-NT	DIN 11850	DN10	13.00
ZAFCK06383-D-NT	DIN 11850	DN15	19.00
ZAFCK06888-NT	DIN 11850	DN20	23.00
ZAFCK06889-NT	DIN 11850	DN25	29.00
ZAFCK06890-NT	DIN 11850	DN32	35.00
ZAFCK06503-D-NT	DIN 11850	DN32	35.00
ZAFCK06891-NT	DIN 11850	DN50	53.00
ZAFCK06297-NT	DIN 11850	DN65	70.00
ZAFCK06892-NT	DIN 11850	DN80	85.00

With tape

ZAFCK06381-EU	ISO 1127	DN 6	10.20
ZAFCK06382-EU	ISO 1127	DN 8	13.50
ZAFCK06500	ISO 1127	DN 10	17.20
ZAFCK06501	ISO 1127	DN 15	21.30
ZAFCK06502	ISO 1127	DN 20	26.90
ZAFCK06457	ISO 1127	DN25	33.70
ZAFCK06503	ISO 1127	DN32	42.40
ZAFCK06564	ISO 1127	DN40	48.30
ZAFCK06835	ISO 1127	DN50	60.30
ZAFCK06388-EU	ISO 1127	DN65	76.10
ZAFCK06525	ISO 1127	DN80	88.90

No tape

ZAFCK06381-EU-NT	ISO 1127	DN6	10.20
ZAFCK06382-EU-NT	ISO 1127	DN8	13.50
ZAFCK06500-NT	ISO 1127	DN10	17.20
ZAFCK06501-NT	ISO 1127	DN15	21.30
ZAFCK06502-NT	ISO 1127	DN20	26.90
ZAFCK06457-NT	ISO 1127	DN25	33.70
ZAFCK06503-NT	ISO 1127	DN32	42.40
ZAFCK06564-NT	ISO 1127	DN40	48.30
ZAFCK06835-NT	ISO 1127	DN50	60.30
ZAFCK06388-EU-NT	ISO 1127	DN65	76.10
ZAFCK06525-NT	ISO 1127	DN80	88.90



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
ZAFCK06878-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



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:



Quality
FM 01570
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

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