

# T-FIT<sup>®</sup> Clean

# T-FIT<sup>®</sup> INSULATION

**Fit** to perform. **Fit** to last

## Product information

### Typical Values

T-FIT<sup>®</sup> Clean is manufactured from Zotefoams ZOTEK<sup>®</sup> 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 Product Information Sheet represent data gathered from random samples of our production of Zotek F42HTLS from which T-FIT Clean is produced and represent typical data. 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.



Property	Test Standard	Typical Value
<b>Material</b>	Manufactured from an FDA Compliant Kynar <sup>®</sup> based resin	
<b>Service Temperature</b>	See Notes Below*	-80 °C to +160 °C (-112 °F to + 320 °F)
<b>Thermal Conductivity</b>		
Mean temperature of 0 °C (32 °F)	ISO 8301	0.0314 W/m.K (0.22 Btu.in/h.ft <sup>2</sup> °F)
Mean temperature of 25 °C (77 °F)		0.0347 W/m.K (0.24 Btu.in/h.ft <sup>2</sup> °F)
Mean temperature of 80 °C (176 °F)		0.0434 W/m.K (0.30 Btu.in/h.ft <sup>2</sup> °F)
<b>Fire Certification</b>		
Euroclass	EN13501-1	B - s1, d0
UL723 / ASTM E84	Flaming Spread Index @ 25mm (1")	5
	Smoke Developed Index @ 25mm (1")	45
AS 1530	Gauge mm	Ignitability
	5	0
	25	0
		Spread of flame
		0
		Heat Evolved
		0
		Smoke Dev
		1
		0/1
<b>Water Vapour Transmission</b>	ISO 1663	6500, μ Value
<b>Outgassing</b>	VDI 2083-P17	8.86 μg/g (ppm)
ISO-AMC class	ISO 14644-8**	-10
<b>Fungus Resistance</b>	ASTM G21-15	Full test complete No signs after 28 days
<b>Factory Mutual 4910 Cleanroom Materials Flammability Test Protocol</b>		Specification Tested

\* These are extreme temperatures. For continuous use or advice on product specification with respect to condensation control please contact your local T-FIT<sup>®</sup> representative

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

Product Code	Description: T-FIT Clean – ASME BPE	Insulation Sizing ID		Product
		in	mm	
ZAFCK99930	ASME BPE 0.25" OD 6.35mm T-FIT Clean Insulating Straight 6.35mm THK	0.25"	6.35	Straight
ZAFCK06381	ASME BPE 0.375" OD 9.53mm T-FIT Clean Insulating Straight 6.35mm THK	0.375"	9.53	Straight
ZAFCK06382	ASME BPE 0.5" OD 12.70mm T-FIT Clean Insulating Straight 6.35mm THK	0.5"	12.70	Straight
ZAFCK06383	ASME BPE 0.75" OD 19.05mm T-FIT Clean Insulating Straight 6.35mm THK	0.75"	19.05	Straight
ZAFCK06384	ASME BPE 1.0" OD 25.40mm T-FIT Clean Insulating Straight 6.35mm THK	1.0"	25.40	Straight
ZAFCK06385	ASME BPE 1.5" OD 38.10mm T-FIT Clean Insulating Straight 6.35mm THK	1.5"	38.10	Straight
ZAFCK06386	ASME BPE 2.0" OD 50.8mm T-FIT Clean Insulating Straight 6.35mm THK	2.0"	50.80	Straight
ZAFCK06387	ASME BPE 2.5" OD 63.50mm T-FIT Clean Insulating Straight 6.35mm THK	2.5"	63.50	Straight
ZAFCK06388	ASME BPE 3.0" OD 76.20mm T-FIT Clean Insulating Straight 6.35mm THK	3.0"	76.20	Straight
ZAFCK06787	ASME BPE 3.5" OD 88.90mm T-FIT Clean Insulating Straight 6.35mm THK	3.5"	88.90	Straight
ZAFCK06522	ASME BPE 4.0" OD 101.6mm T-FIT Clean Insulating Straight 6.35mm THK	4.0"	101.60	Straight
ZAFCK99930	ASME BPE 0.25" OD 6.35mm T-FIT Clean Insulating Straight 6.35mm THK	0.25"	6.35	Straight
ZAFCK99930-NT	ASME BPE 0.25" OD 6.35mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	0.25"	6.35	Straight
ZAFCK06381-NT	ASME BPE 0.375" OD 9.53mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	0.375"	9.53	Straight
ZAFCK06382-NT	ASME BPE 0.5" OD 12.70mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	0.5"	12.70	Straight
ZAFCK06383-NT	ASME BPE 0.75" OD 19.05mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	0.75"	19.05	Straight
ZAFCK06384-NT	ASME BPE 1.0" OD 25.40mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	1.0"	25.40	Straight
ZAFCK06385-NT	ASME BPE 1.5" OD 38.10mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	1.5"	38.10	Straight
ZAFCK06386-NT	ASME BPE 2.0" OD 50.8mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	2.0"	50.80	Straight
ZAFCK05880	ASME BPE 0.375" OD 9.53mm T-FIT Clean Insulating Elbow 6.35mm THK	0.375"	9.53	Elbow
ZAFCK05814	ASME BPE 0.5" OD 12.70mm T-FIT Clean Insulating Elbow 6.35mm THK	0.5"	12.70	Elbow
ZAFCK05815	ASME BPE 0.75" OD 19.05mm T-FIT Clean Insulating Elbow 6.35mm THK	0.75"	19.05	Elbow
ZAFCK05816	ASME BPE 1.0" OD 25.40mm T-FIT Clean Insulating Elbow 6.35mm THK	1.0"	25.40	Elbow
ZAFCK05615	ASME BPE 1.5" OD 38.10mm T-FIT Clean Insulating Elbow 6.35mm THK	1.5"	38.10	Elbow
ZAFCK05616	ASME BPE 2.0" OD 50.80mm T-FIT Clean Insulating Elbow 6.35mm THK	2.0"	50.80	Elbow
ZAFCK05898	ASME BPE 2.5" OD 63.50mm T-FIT Clean Insulating Elbow 6.35mm THK	2.5"	63.50	Elbow
ZAFCK05899	ASME BPE 3.0" OD 76.20mm T-FIT Clean Insulating Elbow 6.35mm THK	3.0"	76.20	Elbow
ZAFCK06878	ASME BPE 3.5" OD 88.90mm T-FIT Clean Insulating Elbow 6.35mm THK	3.5"	88.90	Elbow
ZAFCK06523	ASME BPE 4.0" OD 101.6mm T-FIT Clean Insulating Elbow 6.35mm THK	4.0"	101.60	Elbow
ZAFCK05900	ASME BPE 0.375" OD 9.53mm T-FIT Clean Insulating Tee 6.35mm THK	0.375"	9.53	Tee
ZAFCK05743	ASME BPE 0.5" OD 12.70mm T-FIT Clean Insulating Tee 6.35mm THK	0.5"	12.70	Tee
ZAFCK05744	ASME BPE 0.75" OD 19.05mm T-FIT Clean Insulating Tee 6.35mm THK	0.75"	19.05	Tee
ZAFCK05745	ASME BPE 1.0" OD 25.40mm T-FIT Clean Insulating Tee 6.35mm THK	1.0"	25.40	Tee
ZAFCK05746	ASME BPE 1.5" OD 38.10mm T-FIT Clean Insulating Tee 6.35mm THK	1.5"	38.10	Tee
ZAFCK05747	ASME BPE 2.0" OD 50.80mm T-FIT Clean Insulating Tee 6.35mm THK	2.0"	50.80	Tee
ZAFCK05901	ASME BPE 2.5" OD 63.50mm T-FIT Clean Insulating Tee 6.35mm THK	2.5"	63.50	Tee
ZAFCK05902	ASME BPE 3.0" OD 76.20mm T-FIT Clean Insulating Tee 6.35mm THK	3.0"	76.20	Tee

Product Code	Description: T-FIT Clean – ISO 1127	Insulation Sizing ID		Product Type
		in	mm	
ZAFCK06381-EU	ISO 1127 DN6 OD 10.2mm T-FIT Clean Insulating Straight 6.35mm THK	DN6	10.20	Straight
ZAFCK06382-EU	ISO 1127 DN8 OD 13.5mm T-FIT Clean Insulating Straight 6.35mm THK	DN8	13.50	Straight
ZAFCK06500	ISO 1127 DN10 OD 17.2mm T-FIT Clean Insulating Straight 6.35mm THK	DN10	17.20	Straight
ZAFCK06501	ISO 1127 DN15 OD 21.3mm T-FIT Clean Insulating Straight 6.35mm THK	DN15	21.30	Straight
ZAFCK06502	ISO 1127 DN20 OD 26.9mm T-FIT Clean Insulating Straight 6.35mm THK	DN20	26.90	Straight
ZAFCK06457	ISO 1127 DN25 OD 33.7mm T-FIT Clean Insulating Straight 6.35mm THK	DN25	33.70	Straight
ZAFCK06503	ISO 1127 DN32 OD 42.4mm T-FIT Clean Insulating Straight 6.35mm THK	DN32	42.40	Straight
ZAFCK06564	ISO 1127 DN40 OD 48.3mm T-FIT Clean Insulating Straight 6.35mm THK	DN40	48.30	Straight
ZAFCK06835	ISO 1127 DN50 OD 60.3mm T-FIT Clean Insulating Straight 6.35mm THK	DN50	60.30	Straight
ZAFCK06388-EU	ISO 1127 DN65 OD 76.1mm T-FIT Clean Insulating Straight 6.35mm THK	DN65	76.10	Straight
ZAFCK06525	ISO 1127 DN80 OD 88.9mm T-FIT Clean Insulating Straight 6.35mm THK	DN80	88.90	Straight
ZAFCK06381-EU-NT	ISO 1127 DN6 OD 10.2mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN6	10.20	Straight
ZAFCK06382-EU-NT	ISO 1127 DN8 OD 13.5mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN8	13.50	Straight
ZAFCK06500-NT	ISO 1127 DN10 OD 17.2mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN10	17.20	Straight
ZAFCK06501-NT	ISO 1127 DN15 OD 21.3mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN15	21.30	Straight
ZAFCK06502-NT	ISO 1127 DN20 OD 26.9mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN20	26.90	Straight
ZAFCK06457-NT	ISO 1127 DN25 OD 33.7mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN25	33.70	Straight
ZAFCK06503-NT	ISO 1127 DN32 OD 42.4mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN32	42.40	Straight
ZAFCK06564-NT	ISO 1127 DN40 OD 48.3mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN40	48.30	Straight
ZAFCK06835-NT	ISO 1127 DN50 OD 60.3mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN50	60.30	Straight
ZAFCK06388-EU-NT	ISO 1127 DN65 OD 76.1mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN65	76.10	Straight
ZAFCK06525-NT	ISO 1127 DN80 OD 88.9mm T-FIT Clean Insulating Straight 6.35mm THK (No Tape)	DN80	88.90	Straight
ZAFCK05880-EU	ISO 1127 DN6 OD 10.2mm T-FIT Clean Insulating Elbow 6.35mm THK	DN6	10.20	Elbow
ZAFCK05814-EU	ISO 1127 DN8 OD 13.5mm T-FIT Clean Insulating Elbow 6.35mm THK	DN8	13.50	Elbow
ZAFCK06512	ISO 1127 DN10 OD 17.2mm T-FIT Clean Insulating Elbow 6.35mm THK	DN10	17.20	Elbow
ZAFCK06513	ISO 1127 DN15 OD 21.3mm T-FIT Clean Insulating Elbow 6.35mm THK	DN15	21.30	Elbow
ZAFCK06582	ISO 1127 DN20 OD 26.9mm T-FIT Clean Insulating Elbow 6.35mm THK	DN20	26.90	Elbow
ZAFCK06515	ISO 1127 DN25 OD 33.7mm T-FIT Clean Insulating Elbow 6.35mm THK	DN25	33.70	Elbow
ZAFCK06516	ISO 1127 DN32 OD 42.4mm T-FIT Clean Insulating Elbow 6.35mm THK	DN32	42.40	Elbow
ZAFCK06517	ISO 1127 DN40 OD 48.3mm T-FIT Clean Insulating Elbow 6.35mm THK	DN40	48.30	Elbow
ZAFCK06518	ISO 1127 DN50 OD 60.3mm T-FIT Clean Insulating Elbow 6.35mm THK	DN50	60.30	Elbow
ZAFCK05899-EU	ISO 1127 DN65 OD 76.1mm T-FIT Clean Insulating Elbow 6.35mm THK	DN65	76.10	Elbow
ZAFCK06816	ISO1127 3.0"NB OD 88.90mm T-FIT Clean Insulating Elbow 6.35mm THK	DN80	88.90	Elbow
ZAFCK05900-EU	ISO 1127 DN6 OD 10.2mm T-FIT Clean Insulating Tee 6.35mm THK	DN6	10.20	Tee
ZAFCK05743-EU	ISO 1127 DN8 OD 13.5mm T-FIT Clean Insulating Tee 6.35mm THK	DN8	13.50	Tee
ZAFCK06506	ISO 1127 DN10 OD 17.2mm T-FIT Clean Insulating Tee 6.35mm THK	DN10	17.20	Tee
ZAFCK06507	ISO 1127 DN15 OD 21.3mm T-FIT Clean Insulating Tee 6.35mm THK	DN15	21.30	Tee

Product Code	Description: T-FIT Clean – DIN 11850			
ZAFCK06381-D	DIN 11850 DN8 OD 10.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN8	10.00	Straight
ZAFCK06382-D	DIN 11850 DN10 OD 13.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN10	13.00	Straight
ZAFCK06383-D	DIN 11850 DN15 OD 19.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN15	19.00	Straight
ZAFCK06888	DIN 11850 DN20 OD 23.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN20	23.00	Straight
ZAFCK06889	DIN 11850 DN25 OD 29.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN25	29.00	Straight
ZAFCK06890	DIN 11850 DN32 OD 35.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN32	35.00	Straight
ZAFCK06503-D	DIN 11850 DN40 OD 41.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN40	41.00	Straight
ZAFCK06891	DIN 11850 DN50 OD 53.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN50	53.00	Straight
ZAFCK06297	DIN 11850 DN65 OD 70.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN65	70.00	Straight
ZAFCK06892	DIN 11850 DN80 OD 85.00mm T-FIT Clean Insulating Straight 6.35mm THK	DN80	85.00	Straight
ZAFCK05880-D	DIN 11850 DN8 OD 10.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN8	10.00	Elbow
ZAFCK05814-D	DIN 11850 DN10 OD 13.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN10	13.00	Elbow
ZAFCK05815-D	DIN 11850 DN15 OD 19.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN15	19.00	Elbow
ZAFCK06874	DIN 11850 DN20 OD 23.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN20	23.00	Elbow
ZAFCK06875	DIN 11850 DN25 OD 29.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN25	29.00	Elbow
ZAFCK06876	DIN 11850 DN32 OD 35.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN32	35.00	Elbow
ZAFCK06516-D	DIN 11850 DN40 OD 41.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN40	41.00	Elbow
ZAFCK06877	DIN 11850 DN50 OD 53.00mm T-FIT Clean Insulating Elbow 6.35mm THK	DN50	53.00	Elbow
ZAFCK05743-D	DIN 11850 DN10 OD 13.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN10	13.00	Tee
ZAFCK05744-D	DIN 11850 DN15 OD 19.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN15	19.00	Tee
ZAFCK06509-D	DIN 11850 DN40 OD 41.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN40	41.00	Tee
ZAFCK05900-D	DIN 11850 DN8 OD 10.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN8	10.00	Tee
ZAFCK06879	DIN 11850 DN20 OD 23.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN20	23.00	Tee
ZAFCK06880	DIN 11850 DN25 OD 29.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN25	29.00	Tee
ZAFCK06881	DIN 11850 DN32 OD 35.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN32	35.00	Tee
ZAFCK06882	DIN 11850 DN50 OD 53.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN50	53.00	Tee
ZAFCK06883	DIN 11850 DN65 OD 70.00mm T-FIT Clean Insulating Tee 6.35mm THK	DN65	70.00	Tee

## Exclusion of Liability

Any information contained in this document is, to the best of the knowledge and belief of Zotefoams plc and of Zotefoams Inc. (together herein referred to as ZOTEFOAMS), accurate. Any liability on the part of ZOTEFOAMS or any subsidiary or holding company of ZOTEFOAMS for any loss, damage, costs or expenses directly or indirectly arising out of the use of such information or the use, application, adaptation or processing of any goods, materials or products described herein is, save as provided in ZOTEFOAMS' conditions of sale ("Conditions of Sale"), hereby excluded to the fullest extent permitted by law.

Where ZOTEFOAMS' goods or materials are to be used in conjunction with other goods or materials, it is the responsibility of the user to obtain from the manufacturers or suppliers of the other goods or materials all technical data and other properties relating to those other goods or materials. Save as provided in the Conditions of Sale no liability can be accepted in respect of the use of ZOTEFOAMS' goods or materials in conjunction with any other goods or materials.

Where ZOTEFOAMS' goods or materials are likely to come into contact with foodstuffs or pharmaceuticals, whether directly or indirectly, or are likely to be used in the manufacture of toys, prior written confirmation of compliance with relevant legislative or regulatory standards for those applications may be requested from ZOTEFOAMS, if appropriate. Save as provided in the Conditions of Sale no liability can be accepted for any damage, loss or injury directly or indirectly arising out of any failure by the user to obtain such confirmation or to observe any recommendations given by or on behalf of ZOTEFOAMS.

ZOTEFOAMS MAKES NO WARRANTIES EXPRESS OR IMPLIED, EXCEPT TO THE EXTENT SET OUT IN THE CONDITIONS OF SALE, AND HEREBY SPECIFICALLY EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ANY GOODS, MATERIALS OR PRODUCTS DESCRIBED HEREIN.

Zotefoams plc Management systems are covered by the following:



**Quality**  
FM 01870  
ISO 9001:2015



**Safety**  
OHS 52538  
ISO 45001: 2018



**Environment**  
EMS 36270  
ISO 14001:2015

### Zotefoams plc

675 Mitcham Road  
Croydon  
Surrey  
CR9 3AL  
United Kingdom

Tel: +44 (0) 20 8664 1600  
Email: t-fitsales@zotefoams.com

### T-FIT Insulation Solutions India Private Limited

810 Shapath V, S.G. Highway  
Ahmedabad  
Gujarat  
380015

Tel: +91 (0) 7433946464  
Email: t-fitindia@zotefoams.com

### Zotefoams T-FIT Material Technology (Kunshan) Co., Ltd

181 Huanlou Road  
Development Zone,  
Kunshan City,  
Jiangsu Pr.  
China 215333

Tel: +86 (0)512 5012 6001-8001  
Email: t-fitchina@zotefoams.com

### Zotefoams Inc.

55 Precision Drive  
Walton KY  
41094 USA

Tel: +1 (0) 859 371 4025  
Free: (800) 362-8358 (US Only)  
Email: t-fitusa@zotefoams.com

T-FIT® and ZOTEK® are registered trademarks of Zotefoams plc. Kynar® is a registered trademark of Arkema Inc. All rights reserved

Issue 2 Revision 8

If you would like more information visit our website [www.zotefoams.com](http://www.zotefoams.com)