

T-FIT[®] Process



Product information

Typical Values

T-FIT[®] Process is manufactured from Zotefoams ZOTEK[®] NB 50 closed cell Nylon foam.

The values provided in this Product Information Sheet represent data gathered from random samples of our production of T-FIT[®] Process foam 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
Material		ZOTEK [®] N B50 Closed Cell Nylon Foam
Service Temperature	See Notes Below*	-4 °F to +392 °F
Thermal Conductivity		
Mean temperature of 77 °F	ISO 8301	0.0361 W/m.K (0.25 Btu.in/h.ft ² °F)
Mean temperature of 338 °F		0.0485 W/m.K (0.34 Btu.in/h.ft ² °F)
Fungus Resistance	ASTM G21-15	Full test complete No signs after 28 days
Fire Certification		
Euroclass (Clad Product Only)	EN13501-1	E, E _L
AS 1530	Gauge mm Ignitability Spread of flame Heat Evolved Smoke Dev	
	5 0 0 0 3	
Integral Cladding		Alu-PET Composite

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

Product Code	Description: T-FIT Process, Straight Tubes	Standard	Insulation Sizing
TFPS009A06C000-9000	ASME BPE 0.375" OD 9.53mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	0.375"
TFPS012A06C000-9001	ASME BPE 0.5" OD 12.70mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	0.5"
TFPS019A06C000-9002	ASME BPE 0.75" OD 19.05mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	0.75"
TFPS025A06C000-9003	ASME BPE 1.0" OD 25.40mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	1.0"
TFPS038A06C000-9004	ASME BPE 1.5" OD 38.10mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	1.5"
TFPS050A06C000-9005	ASME BPE 2.0" OD 50.80mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	2.0"
TFPS063A06C000-9006	ASME BPE 2.5" OD 63.50mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	2.5"
TFPS076A06C000-9007	ASME BPE 3.0" OD 76.20mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	3.0"
TFPS101A06C000-9008	ASME BPE 4.0" OD 101.60mm T-FIT Process Insulating Straight 6.35mm THK	ASME BPE	4.0"
TFPS023D06C000-9004	DIN 11850 DN20 OD 23.00mm T-FIT Process Insulating Straight 6.35mm THK	DIN 11850	DN20
TFPS029D06C000-9005	DIN 11850 DN25 OD 29.00mm T-FIT Process Insulating Straight 6.35mm THK	DIN 11850	DN25
TFPS009A06C000-9006	DIN 11850 DN32 OD 35.00mm T-FIT Process Insulating Straight 6.35mm THK	DIN 11850	DN32
TFPS041D06C000-9007	DIN 11850 DN40 OD 41.00mm T-FIT Process Insulating Straight 6.35mm THK	DIN 11850	DN40
TFPS053D06C000-9008	DIN 11850 DN50 OD 53.00mm T-FIT Process Insulating Straight 6.35mm THK	DIN 11850	DN50
TFPS070A06C000-9009	DIN 11850 DN65 OD 70.00mm T-FIT Process Insulating Straight 6.35mm THK	DIN 11850	DN65
TFPS060I06C000-9013	ISO 1127 DN50 OD 60.3mm T-FIT Process Insulating Straight 6.35mm THK	ISO 1127	DN50
TFPS076I06C000-9014	ISO 1127 DN65 OD 76.1mm T-FIT Process Insulating Straight 6.35mm THK	ISO 1127	DN65
TFPS021I06C000-9009	ISO 1127 DN15 OD 21.3mm T-FIT Process Insulating Straight 6.35mm THK	ISO 1127	DN15
TFPS026I06C000-9010	ISO 1127 DN20 OD 26.9mm T-FIT Process Insulating Straight 6.35mm THK	ISO 1127	DN20
TFPS033I06C000-9011	ISO 1127 DN25 OD 33.7mm T-FIT Process Insulating Straight 6.35mm THK	ISO 1127	DN25
TFPS048I06C000-9012	ISO 1127 DN40 OD 48.3mm T-FIT Process Insulating Straight 6.35mm THK	ISO 1127	DN40
TFPS088I06C000-9015	ISO 1127 DN80 OD 88.9mm T-FIT Process Insulating Straight 6.35mm THK	ISO 1127	DN80

On test equipment, Zotefoams can demonstrate that an operator can safely touch the surface of a T-FIT Process tube with 0.25" wall thickness and clad with aluminum/PET film composite on a pipe with process temperatures of 392 °F, even though the measured surface temperature can be as high as 194 °F. Injury is not sustained, despite the high surface temperature, because the PET film is an extremely poor conductor. The maximum skin contact temperature measured is only around 104 °F after 5 seconds contact (standard reaction time in an industrial environment). These contact temperatures are deemed safe as

they are below the threshold temperature for burn injuries over this time frame.

The widespread use of metallic cladding systems may have given rise to an acceptance that 140 °F is the upper surface temperature limit with regards to personal protection, but substitution of this cladding with the composite described above allows operators to be protected even when temperatures exceed this so-called limit.

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