



Healthcare  
Facilities



Transportation  
& Logistics



Industrial  
Applications



Residential &  
Commercial



Oil & Gas



Closed Cell Polyolefin  
**Thermal Insulation Solutions**  
Tubes, Rolls & Sheets

# Incoflex<sup>®</sup>

Crosslinked Polyolefin Foam Insulation **XLPE**



## Incoflex XLPE Thermal Insulation Tubes, Rolls & Sheets

Incoflex XLPE thermal insulation is a high-performance closed-cell cross-linked polyethylene insulation designed to deliver reliable thermal efficiency, moisture resistance, and long-term durability in demanding building services environments. Available in tubes, rolls, and sheets, the material provides excellent resistance to water vapour transmission, condensation control, and mechanical stress while maintaining flexibility for easy installation across complex pipework and duct systems. Its chemically stable structure ensures consistent thermal performance, low thermal conductivity, and resistance to ageing, making it suitable for a wide range of HVAC and MEP applications including chilled water lines, hot water systems, refrigeration piping, air-conditioning duct insulation, and general building services thermal protection.



### Incoflex XLPE UF-Unfaced Tubes, Rolls & Sheets

Incoflex Unfaced XLPE provides flexible installation, no vapor barrier, and cost-effective multilayer insulation for pipes, ducts, tanks, and vessels. For outdoor use, apply additional weather-resistant jacketing or coating.



### Incoflex XLPE AP-Aluminum Reinforced Foil Facer-Tubes, Rolls & Sheets

Incoflex XLPE AP offers enhanced thermal efficiency, vapor-barrier protection, and durable, easy-clean performance for HVAC and high-humidity applications.



### Incoflex XLPE RE-Reinforced Fiber Aluminum Foil-Facer

Incoflex XLPE RE offers high-performance insulation with reinforced strength, long-term durability, and compliance with stringent international fire-safety standards.



### Incoflex XLPE IncoClad-Pre-Clad Reinforced Foil-Facer

Incoflex XLPE IncoClad is a high-performance pre-clad insulation with built-in weather, UV, moisture, and vapor resistance—eliminating the need for additional jacketing or coatings.



Incoflex XLPE Glue



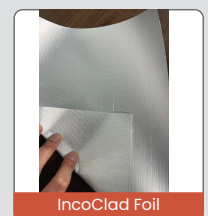
Incoflex Alupet Tape



Incoflex Aluglass Tape



Incoflex XLPE Foam Tape



IncoClad Foil

## XLPE Standard Specification

PROPERTY	VALUE/RESULT	STANDARD TEST METHOD
Density <sup>1</sup>	(25 to 40 Kg/m <sup>3</sup> )	ASTM D3574-17/C177
Service Temperature (foam only)	-50°C to 110°C	ASTM D3574-17/C177
Thermal conductivity at mean temperature	0.032 W/m.K 23°C	ASTM C518
Water Vapour Transmission	≤7.29×10 <sup>-9</sup> g/Pa.s.m	ASTM E96
Water Vapour Permeance	≤ 0.63 x 10 <sup>-1g</sup> /Pa.s.m <sup>2</sup>	ASTM E96
Water Vapour Permeability	0.05 perm-inch	ASTM E96
Vapor Diffuser Resistance Factor(μ)	> 85,000	EN 12086
Water Absorption (Liquid phase)	< 0.1% (by volume)	ASTM C209
Resistance To Fungi	No Growth	ASTM G21
Resistance To Bacteria	No Growth	ASTM G22/ISO 22196
Ozone Resistance	No cracks were observed	ASTM D1149-18
Leachable Chloride	<0.1%	ASTM C871-18
Compression set	28%	ASTM D3574-17
CFC & HCFC Free	Comply	USEPA 8260B
VOC Level (Green Star Rating)	Low VOC Emitting	ASTM D5116
<b>FIRE AND SMOKE PERFORMANCE</b>		
Surface Burning Characteristics	Class A (FSI<25 and SDI<50)	ASTM E84
Surface Spread of Flame	Class 0	BS 476 part 6 and 7
Classification of Reaction to Fire	B-s1,d0	EN 15301-1
Flammability Test for Polymer	Pass	UL 94-HB
Fire Test on Building Materials	0, 0, 0, 0-1	AS/NZS 1530.3



Zero ODP



Antifungal & Antibacterial



Improves IAQ



Reduces thermal losses



Eco-friendly



Reduces carbon emissions

<sup>1</sup>According to ASTM C1427, density is not a performance property, and should be considered as a reference only.

- Storage Instruction                      Storage in dry, clean room (Below 40°C and RH 50-70%)  
Do not expose to direct sunlight. Avoid dusty environments
- Warranty of Incoflex XLPE              Upto 10 Years following installation instructions

► Please consult the individual Technical Data Sheet for each product model for further information. If you have any questions regarding the products, technical specifications, or require further details, please contact [@incotecgroup.com](mailto:@incotecgroup.com) or [enquiry@incotecgroup.com](mailto:enquiry@incotecgroup.com)

## IncoSOFT.

Developed in compliance with ISO 12241

IncoSOFT is a specialized engineering tool developed by incotec group to determine the optimal insulation thickness for cooling systems.

## Incoflex XLPE Tube Size

Copper Pipe		Steel Pipe		Insulation Tube	Wall Thickness(mm)								
OD(inch)	OD(mm)	NPS(inch)	OD(mm)	ID(mm)	10	15	20	25	30	35	40	50	60
1/4"	6.35			6	IFXT0610	IFXT0615	IFXT0620	IFXT0625	IFXT0630	IFXT0635	IFXT0640	IFXT0650	IFXT0660
3/8"	9.52			10	IFXT1010	IFXT1015	IFXT1020	IFXT1025	IFXT1030	IFXT1035	IFXT1040	IFXT1050	IFXT1060
1/2"	12.70			13	IFXT1310	IFXT1315	IFXT1320	IFXT1325	IFXT1330	IFXT1335	IFXT1340	IFXT1350	IFXT1360
5/8"	15.88			16	IFXT1610	IFXT1615	IFXT1620	IFXT1625	IFXT1630	IFXT1635	IFXT1640	IFXT1650	IFXT1660
3/4"	19.05			19	IFXT1910	IFXT1915	IFXT1920	IFXT1925	IFXT1930	IFXT1935	IFXT1940	IFXT1950	IFXT1960
7/8"	22.22	1/2"	21.3	22	IFXT2210	IFXT2215	IFXT2220	IFXT2225	IFXT2230	IFXT2235	IFXT2240	IFXT2250	IFXT2260
	25.40			25	IFXT2510	IFXT2515	IFXT2520	IFXT2525	IFXT2530	IFXT2535	IFXT2540	IFXT2550	IFXT2560
1 1/8"	28.58	3/4"	33.7	28	IFXT2810	IFXT2815	IFXT2820	IFXT2825	IFXT2830	IFXT2835	IFXT2840	IFXT2850	IFXT2860
1 1/4"	31.80			32	IFXT3210	IFXT3215	IFXT3220	IFXT3225	IFXT3230	IFXT3235	IFXT3240	IFXT3250	IFXT3260
1 3/8"	34.93	1"	33.7	35	IFXT3510	IFXT3515	IFXT3520	IFXT3525	IFXT3530	IFXT3535	IFXT3540	IFXT3550	IFXT3560
1 1/2"	38.10			38	IFXT3810	IFXT3815	IFXT3820	IFXT3825	IFXT3830	IFXT3835	IFXT3840	IFXT3850	IFXT3860
1 5/8"	41.28	1 1/4"	42.2	42	IFXT4210	IFXT4215	IFXT4220	IFXT4225	IFXT4230	IFXT4235	IFXT4240	IFXT4250	IFXT4260
1 7/8"	48.00	1 1/2"	48.2	48	IFXT4810	IFXT4815	IFXT4820	IFXT4825	IFXT4830	IFXT4835	IFXT4840	IFXT4850	IFXT4860
2 1/8"	53.98			54	IFXT5410	IFXT5415	IFXT5420	IFXT5425	IFXT5430	IFXT5435	IFXT5440	IFXT5450	IFXT5460
2 3/8"	60.30	2"	60.3	60	IFXT6010	IFXT6015	IFXT6020	IFXT6025	IFXT6030	IFXT6035	IFXT6045	IFXT6050	IFXT6060
	76.00	2 1/2"	76.1	77	IFXT7710	IFXT7715	IFXT7720	IFXT7725	IFXT7730	IFXT7735	IFXT7745	IFXT7750	IFXT7760
3 1/8"	79.00			80	IFXT8010	IFXT8015	IFXT8020	IFXT8025	IFXT8030	IFXT8035	IFXT8045	IFXT8050	IFXT8060
3 1/2"	89.00	3"	88.9	89	IFXT8910	IFXT8915	IFXT8920	IFXT8925	IFXT8930	IFXT8935	IFXT8945	IFXT8950	IFXT8960
	102.00			102	IFXT10210	IFXT10215	IFXT10220	IFXT10225	IFXT10230	IFXT10235	IFXT10245	IFXT10250	IFXT10260
4 1/2"	114.00	4"	114.3	114	IFXT11410	IFXT11415	IFXT11420	IFXT11425	IFXT11430	IFXT11435	IFXT11445	IFXT11450	IFXT11460
		5"	141.3	141	IFXT14110	IFXT14115	IFXT14120	IFXT14125	IFXT14130	IFXT14135	IFXT14145	IFXT14150	IFXT14160
		6"	168.3	168			IFXT16820	IFXT16825	IFXT16830	IFXT16835	IFXT16845	IFXT16850	IFXT16860
		8"	219.1	219			IFXT21920	IFXT21925	IFXT21930	IFXT21935	IFXT21945	IFXT21950	IFXT21960
		10"	273.05	273			IFXT27320	IFXT27325	IFXT27330	IFXT27335	IFXT27345	IFXT27350	IFXT27360
		12"	323.5	324			IFXT32420	IFXT32425	IFXT32430	IFXT32435	IFXT32445	IFXT32450	IFXT32460
		14"	355.6	356			IFXT35620	IFXT35625	IFXT35630	IFXT35635	IFXT35645	IFXT35650	IFXT35660
		16"	406.4	406			IFXT40620	IFXT40625	IFXT40630	IFXT40635	IFXT40645	IFXT40650	IFXT40660
		18"	457.2	457			IFXT45720	IFXT45725	IFXT45730	IFXT45735	IFXT45745	IFXT45750	IFXT45760
		20"	508	508			IFXT50820	IFXT50825	IFXT50830	IFXT50835	IFXT50845	IFXT50850	IFXT50860
		22"	558.8	559			IFXT55920	IFXT55925	IFXT55930	IFXT55935	IFXT55945	IFXT55950	IFXT55960
		24"	609.6	610			IFXT61020	IFXT61025	IFXT610x30	IFXT61035	IFXT610x45	IFXT61050	IFXT61060
		26"	660	660			IFXT66020	IFXT66025	IFXT66030	IFXT66035	IFXT66045	IFXT66050	IFXT66060
		28"	711.2	711			IFXT71120	IFXT71125	IFXT71130	IFXT71135	IFXT71145	IFXT71150	IFXT71160

## Incoflex XLPE Sheets/Rolls Size Chart

Thickness		Rolls/Sheet Size		Code
Inch	mm	Width(m)	Length(m)	
1/8"	3	1.2	50	IFXD031250
1/4"	5	1.2	30	IFXD051230
3/8"	10	1.2	20	IFXD101220
1/2"	12	1.2	20	IFXD121220
5/8"	15	1.2	20	IFXD151220
3/4"	20	1.2	20	IFXD201220
1"	25	1.2	20	IFXD251220
1"	25	1.2	2.4	IFXD251224
1 1/8"	30	1.2	2.4	IFXD301224
1 1/2"	40	1.2	2.4	IFXD401224
2"	50	1.2	2.4	IFXD501224

- Other sizes not listed in these tables may be available upon request. Please contact your local representative or email us at [enquiry@incotecgroup.com](mailto:enquiry@incotecgroup.com) for more information.
- All dimensional tolerances are in accordance with ASTM C1427.