



The ideal material to maintain the ideal temperature



Complete green product certified by Green Business Centre
- Confederation of Indian industries on behalf of
Indian Green Building Council.



Supreme Always Value Efficient

INSUshield[®]

[Formerly SIL-XL-C]

Class 'O' in fire propagation
Class 'I' in surface spread of flame
as per BS 476 Part 6 & Part 7

INSUshield (Formerly SIL-XL-C)

INSUshield is a non fibrous, fire retardant, closed cell, tri dimensional chemically crosslinked polyethylene foam. Conforms to 'Class O' for Fire propagation and 'Class 1' for surface spread of flame. Non-toxic & enhanced life Green product with a perfect solution for all your thermal insulation needs.

Features & Benefits

- **Polymer based product with long service life without deterioration of thermal insulation properties**
- More than 85% closed cell - Negligible water/moisture absorption
- U_L Certified
- Wide range of operating temperature
- Low and stable 'K' Value
- Resistance to bacterial growth
- Non-toxic, non irritant & no risk to airborne fibres contaminating indoor air quality
- Non carcinogenic, Green product, chemically inert
- Weather resistant and shock proof
- Easy to use and maintenance free
- User friendly
- Emits non-toxic smoke

Technical Specifications

Description	Test Standard	UOM	INSUshield Test Value
Operating temp. (Under Intermittent Exposure)*	ASTM D 3575	°C	-40 to +115
Density range	ASTM D 3575	kg/m³	22 to 36
Thermal conductivity (K Value) (FOR REF. ONLY)*			
K value @ 0°C	ASTM C 518	W/m°K	0.0318 - 0.0332
K Value @23°C			0.0328 - 0.0345
K Value @ 45 °C			0.0333 - 0.0360
Water absorption*	ASTM D 1056	%	≤ 2%
Water Vapour transmission foil side*	ASTM E 96	gms/m ² /24 hrs for 7 days	0.034
Water Vapour permeability*	EN 12086	ng/Pa ms	< 6*10-3
Water Vapour resistance factor foam side*	EN 12086	μ	≥8000
Water Vapour resistance factor foil side*	EN 12086	μ	≥11000
Fire Characteristics*			
a) Surface spread of flame (For both plain and foil faced material)	BS 476 Part 7 Class 1	Compliance	Complied
b) Fire Propagation (For aluminium foil faced material only) Index & Sub Index	BS 476 Part 6 & 7- Class O	Compliance	Complied
c) U _L 94 Certified	UL 94 HBF	Compliance	Certified
d) Fire spread Index & smoke developed index	ASTM E 84 Class A	Compliance	Complied* (25 FSI & 45 SDI)
Resistance to chemicals	ASTM D 543	Compliance	Complied
Sound Transmission class	ASTM E 2611	db	>25 dB
RoHS	ROHS/EU/95/Recast	Compliance	Complied
Green product	GBC/CII version 01 (IGBC)	Compliance	Complied
Fire protection on railway vehicles	EN 45545-2:2013+A1:2015	Compliance	Complied R1 & HL3

*Final spec value applicable for specified product & density. Please contact manufacturer for actual specs against product.

Applications

- A.C. Humidification/ Duct Insulation
- Underdeck Insulation
- Pipelines
- Cold Insulation

Product Variance

- Sheet form, roll form and preformed pipe coverings
- Plain material available in thickness of 3mm to 13 mm in single layer with 1250mm width. Over 3 mm thickness in 1220 mm width and laminated material is available in 1220 mm width for 3mm and above
- Available with various factory applied laminations such as MetPet film, aluminium foil, UV barrier film, adhesive backed with peel off paper, etc. for diverse applications
- Insushield is available in various widths and thickness and also in preformed tubing profile ¼" to 8", pipe ID to match the requirement of Copper M.S, G.I. and plastic pipe

Connect with us

Vansh Enterprise
4, Pragati Estate, B/h Hyundai Service Centre,
Sarkhej-Sanand Road, Sarkhej-382210, Ahemdabad
Contact no- 9987785941 / 9819018888
Email:- vanshinsul@gmail.com



THE ABOVE MENTIONED SPECIFICATIONS ARE REFERENCE PURPOSES ONLY.

Disclaimer: Recommendation for the use of this product is based upon tests believed by us to be reliable. However, since we have no control over the conditions under which the goods are transported or under which the purchaser stores, handles or uses these goods, TSIL (seller) makes no warranty of any kind, expressed or implied that the goods sold shall be of the standard quality of the seller and buyer assumes all risks and liability resulting from the use of the goods. Before using, user shall determine the suitability of the product for this intended use, and user assumes all risks and liability whatsoever in connection therewith and SIL makes no warranties or representation as to the fitness of the product for any particular use. Seller neither assumes nor authorizes any person to assume for the seller any other liability in connection with the sale or use of this product, and there are no oral agreement or warranties collateral to or affecting this product. The above values measured in our laboratory do not constitute a product specification.