

Optimum insulation with engineered crosslinked polyethylene foam



Supreme Always Value Efficient

INSUshield-af

Engineered crosslinked polyethylene foam with improved thermal insulation properties

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INSUshield-af is chemically cross-linked polyethylene insulation foam with optimized and acoustically tuned air channels/tunnels embedded within its close cell structure. These air channels/tunnels offer more resistance to heat transfer and at the same time improve the sound absorption property. This results in lowering the energy consumption with more cost saving and better acoustics performance.

INSUshield-af retains all the features of INSUshield and additionally enhances the thermal conductivity up to 10% over standard INSUshield. Sound absorption values are also increased by over 30% against standard INSUshield. This makes INSUshield-af very much user friendly and improvement in thermal and acoustic properties during applications of products.

Features & benefits

- Low stable thermal conductivity offers better insulation performance
- Offers good sound absorption as well as insulation
- Lightweight and flexible with ease for handling
- Better vapor barrier properties
- Resistant to moisture, fungi, bacteria & chemicals
- Environment friendly and CFC / HCFC free

Technical specifications

Sr.	Parameter	Unit	STD	9 mm	13 mm	19 mm	25 mm
	Expansion			35	35	35	35
1	Thickness	mm		9-9.8	13.5-14	19-19.8	25-26
2	Spot density	Kg/m ³	ASTM	28±3	28±3	28±3	28±3
3	Tensile strength	Kg/m ²	D3575	71.50	71.20	70.90	N/a
4	Elongation	%		7100	770	740	N/a
5	Tear strength	Kg/cm		71.2	71.0	0.6	N/a
6	FR test		UL-94	HF1	HF1	N/a	N/a
7	Thermal conductivity	W/mK	ASTM C518	0.03800	0.03906	0.04277	N/a
8	Sound absorption	%	ISO10534-2 & ASTM E-1050	0.08	0.09	0.19	0.17

Variants

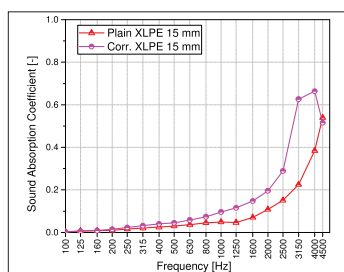
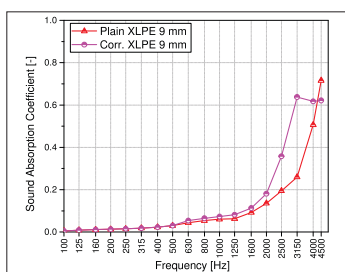
- **INSUshield-af-pl:** INSUshield-af plain
- **INSUshield-af-al:** INSUshield-af laminated with Aluminium foil on one or both sides
- **INSUshield-af-mp:** INSUshield-af laminated with MetPet on one or both sides

Available in

- Thickness: 9 mm, 13 mm, 19 mm and 25 mm in 35x
- Width: 1220 to 1250 mm
- Length: 15 to 40 mtrs.
- With Aluminum foil and Met Pet lamination

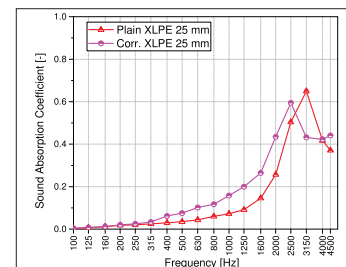
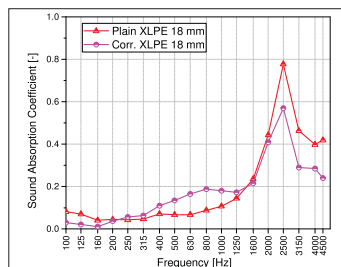
Acoustical specifications

- Sound Absorption as per ISO 10534-2/ASTM E1050
- Sound Transmission Loss as per ASTM E2611



Applications

- Duct Insulation
- Under deck insulation
- Chiller tank insulation
- Fan coil insulation
- AHU insulation
- HVAC
- Refrigeration Units
- Engine enclosures (temp requirement should be checked)
- Buses/Trucks



Connect with us

Corporate Office Mumbai: 1161, Solitaire Corporate Park, Guru Hargovindji Marg, Andheri – Ghatkopar Link Road, Chakala, Andheri (E), Mumbai – 400093 Tel: (+91-22) 40430000 / 67710000 / 30840000 Fax: (+91-22) 40430099 / 67710099 / 30840000 **Ahmedabad:** Tel: (+91-79) 27681361 / 27680043 / 27680903 Fax: (+91-79) 27680064 **Bengaluru:** Tel: (+91-80) 22215475 / 22104698 Fax: (+91-80) 22104697 **Chennai:** Tel: (+91-44) 43851500 / 39811176 / 39811174 Fax: (+91-44) 43850498 **Delhi:** Tel: (+91-11) 46590000 / 26413728 / 26217454 Fax: (+91-11) 46561393 **Hyderabad:** Tel: (+91-40) 23221140 Fax: (+91-40) 23221120 **Kolkata:** Tel: (+91-33) 24858837 / 24858839 / 24858833 Fax: (+91-33) 24858838 **Pune:** Tel: (+91-20) 25890538 **E-mail:** insulation@supreme.co.in **Website:** www.supreme.co.in **Blog:** insulation.supreme.co.in

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