

**SWISS
BUILDING
PRODUCTS
(INDIA) PVT.
LTD.**



PRODUCT BROCHURE

Product Applications

- Thermal Insulation
 - Thermal Packaging
 - Radiant Barriers
- & many more

About Swiss Insulation Material

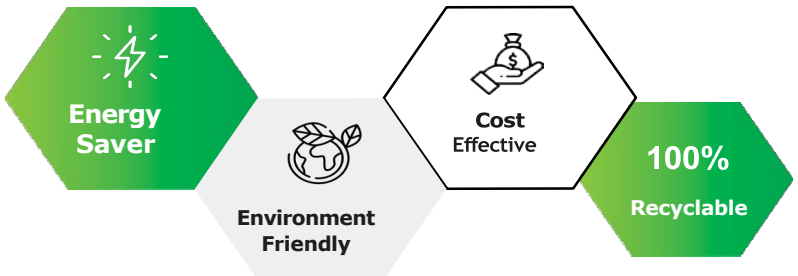
◦ We, Swiss Building Products (India) Pvt. Ltd., is a gen-next infrastructure solutions company that caters to the global need for next-gen Roofing Solutions with a strong R & D capability, which was established in the January 2023 and based out of Ahmedabad, Gujarat, Swiss Building products set up a state of the art manufacturing facility with implementation of forward integration.

◦ We are one source for any requirements related to closed cell polyethylene foam insulation products. We're dedicated to give you the best of non-cross linked closed cell polyethylene (recyclable foam material) with a focus on energy loss in industry, domestic, automotive and agriculture applications.

We started this with our passion for insulation products with their techno-commercial benefits in industry to prevent heat loss & energy loss in HVAC industry drove them to do tons of research so that Swiss can offer the world's most qualitative insulation products with different reinforcement lamination material as per your requirements.

◦ We now serve clients all over the world with world standard quality and are thrilled that we're able to turn our passion into our business.

Our commitment to quality standards is recognized with ISO-9001-2015 & ISO-14001-2015 certification.



Our Vision

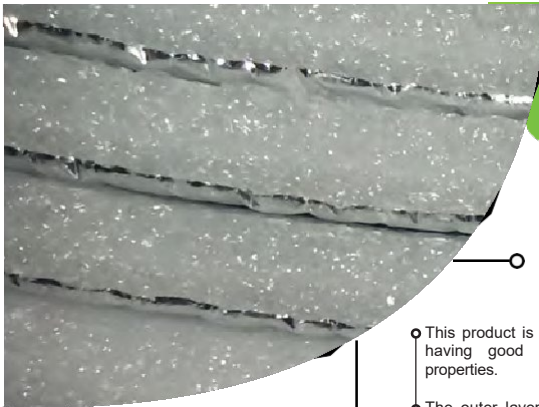
To be the leading provider of high-quality and innovative construction solutions, delivering exceptional value to our customers and driving sustainable growth in the construction industry.

Our Approach

- We have been an established and popular company with an excellent track record for the best customer satisfaction.
- We have never compromised on the quality and the services provided to the customers.
- We believe in keeping the customers happy and providing them with products at competent price.
- Please feel free to keep in touch with us about any of our business related requirements.
- Additionally, we are specialized in radiant barrier (5 - 7 layers) products.



Product Details



Closed cell polyethylene foam insulation

Physical Properties of EPE Foam

- EPE foam is the harmless plastic and has no taste or odour.
- EPE has the high weight to strength ratio and high thermal resistance.
- It can be heated and melted multiple times, and reshaped into other new objects due to the high EPE foam temperature range.
- EPE foam is resistant to water, oils, and many major chemicals.
- It is also a very good insulating material.
- EPE is available in different densities, according to its application or purpose.

- This product is very environment friendly along with having good heat safeguarding and insulation properties.
- The outer layer of PET works to provide excellent abrading and tears resistance.
- The middle layer of AL / EPE (closed cell non cross linked polyethylene foam, recyclable material) shows strong ability in barricade of moisture.
- This industrial insulation roll with EPE foam is the highest quality material for warm-keeping and energy-saving, it is also the killer of dew forming and the transmission of cold and heat.
- This thing insulates any heat media with a stable and low thermal conductivity.
- Its light in weight and It could also absorb sound, reduce noise, and provide cushioning function.
- This insulation foam sheet is water and leak proof, anti-flaming, easy to be processed and installed. It's extremely durable in use and endurable to heat, cold and chemical reaction.

Chemical Properties of EPE Foam

The chemical makeup of expanded polyethylene is similar to most plastics, and of the form (C H) nH .

03. EPE foam is also referred to as bead board in the plastic industry.

01. EPE is usually white in colour unless a dye or other colour pigment is added to it during the melting process.

04. It is a closed cell foam, which allows it to take up more volume and be light weight.

OUR PRODUCT APPLICATIONS

01.

Thermal Insulation for Internal/External Application

Thermal insulation for internal application comes as Closed Cell Polyethylene foam laminated with metalized foil, aluminum foil and AluPET. ←

Foil with different combination and customizable as per your requirements are available. ←

Moreover, we are able to supply one side adhesive which are too easy to apply (DIY). ←

Thermal Insulation for external application comes as Closed Cell Polyethylene foam laminated with Glass cloth and ←

Ultra Clad foil provides with extra mechanical strength to the product. ←



02.

Thermal Packaging Applications

Our Foam Packaging Team has developed two products for the packaging application. ←

The first one is laminated with 140 GSM brown paper to apply with craft box. ←

Second product is laminated with woven fabric to apply with FIBC bags or small woven sack bags ←



OUR PRODUCT APPLICATIONS

03.

Automobiles, Construction & Sports.



In Automobiles this is used for roof tops, engines, ←
bonnets, d

river cabin insulation, door panels, seat linings, floor
mats, carpet underlay, upholstery, sun
visors and AC insulation.

For Construction purpose it is used for expansion joint ←
fillers, water proofing of terraces/roofs, foundation
wraps, sound barrier underlay, false ceilings and
structural glazing.

The sports goods use this material for wrestling, judo, ←
gymnastics, taekwondo, jogging exercise mats, leg and
thigh guards, arm/elbow/shoulder pads, helmets,
sleeping bags, ski belts, lifesaving jackets and glove
and costume insulation.

04

Radiant Barrier Application



Our Very Talented R&D Team at Uma Enterprise LLC ←
has developed two super- efficient Radiant Barrier
materials for application

The first is Uma FNWF is made up with nontoxic ←
polypropylene nonwoven fabric laminated both side
with highly reflective non corrosive pure aluminum foil

The other is Uma FWF is made up with nontoxic HDPE ←
woven fabric laminated both side with highly reflective
non corrosive pure aluminum foil

Applicable in Packaging Industry & Container Liner ←

How Swiss Insulation Materials are Different from Others!

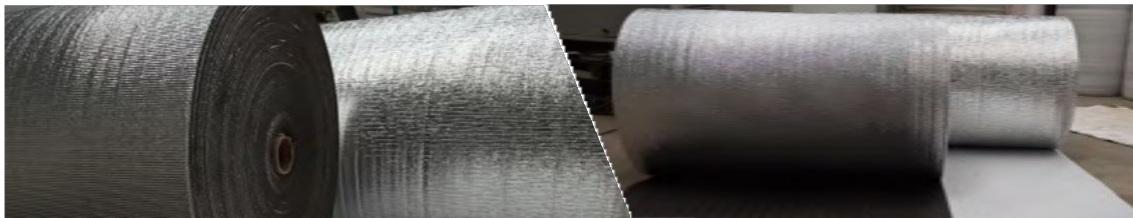
Properties	Traditional Insulation Material	Swiss Insulation Material
Cost Efficiency	Single or both side Pure Aluminum Foil insulations price are higher due to bulky low production and transport cost. Fixing cost and time are higher as per building requirements.	Best and low cost material in present time from all kind of application with pure aluminum foils. Always low fixing cost with highest speed of installation in any kind or building at any level.
Reflectivity	Due to absorption the Reflection capacity decreases year to year.	97% Reflectivity not absorbing & blocks the moisture and heat.
Emissivity	Traditional insulation absorb the moisture & heat	3% emissivity not absorbing & blocks the moisture and heat.
Product Dimension	For thermal insulation always higher in thickness & available standard size and Shapes bulky material.	Low in thickness, light weight, flexible & available in customization as per building requirements.
Installation Process	Always Require cost ads for other installation item like weld mesh, fasteners, adhesive, Tapes & other item for installation and require professional labours.	Easy and fast installation by using simple process no expensive items required Easy Installation by any roofing fabricator, contractor and erector.
Other Parameter	Mostly not free by dust, fiber, corrosion shrinkage & chemically reacted.	It is humidity and vapor barrier with free to shrinkage, corrosion, fiber, and dust and chemically none reacted.

Product Dimensions

Perfectly Crafted Products to endure
all your needs

Insulation Rolls Dimension					
Sr.No.	Thickness (mm)	Thickness Tolerance (mm)	Width (mtr) ± 0.02 m	Length (mtr) $+0.5m/-0.2m$	Total SQM
1.	2	± 0.5	1.2m	200	240
2.	3	± 0.5	1.2m	150	180
3.	4	± 0.5	1.2m	100	120
4.	5	± 0.5	1.2m	80	96
5.	6	± 0.6	1.2m	70	84
6.	8	$(-1.0/+1.0)$	1.2m	50	60
7.	10	$(-1.0/+1.0)$	1.2m	40	48
8.	12	$(-1.0/+1.0)$	1.2m	35	42
9.	25	$+1.5$	1.2m	16	19.2

Note: Double sided laminated material have extra tolerances (- 0.5 mm)





TECHNICAL SPECIFICATIONS

<u>Parameter</u>	<u>EPE Specification</u>
Material	Expanded Polyethylene Foam Insulation
Temperature Range	-40°C to +90°C
Nominal Density	25 ± 5 Kg/m ³
Thermal Conductivity	0.0389 W/m °K
Reaction to Fire	Self-Extinguishing, Non-toxic Ozone
Dimensional Stability: BS 4370 Part 1	Change in Dimensions at -20°C for 4 hrs: <0.6% and at 110°C for 4 hrs: <0.6%
Limiting Oxygen Index: ASTM D 2863	24%
Compression Strength@25%:	11 psi
Tensile Strength: ASTM D 3575	45%
Elongation to Break: ASTM D 3575	30 lbs/in
Buoyancy ASTM-D3575	59.5 pcf
Fungal Resistance: ASTM G 21	No Growth observed
Volume % of Closed cells: ASTM 4370 Part 2	>90%
Sound Transmission ASTM E 413/ ISO 140	40 dB
"Water Absorption: ASTM D3575 (without Paper)"	<0.2%
Health & Safety Aspects	CFC/HCFC Free; Dust and Fiber free, VOC/SVOC Free
Emission of Volatile Organic Compound(VOC)	Negligible
Emissivity	3%

Why Choose Us

Insulation Materials

1. You can have Peaceful nights without worrying about the Quality of the Product & Service you have chosen.
2. Save a ton of money in the long run!
3. For trustworthy and transparent partners for your construction solutions.
4. Trust in our experience
5. Trust in our solutions
6. Trust in our results
7. Our commitment to quality is customer satisfaction first.

THANK YOU.



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MAKE IN INDIA

