



INNOVATIVE INSULATION SOLUTIONS FOR A GREENER WORLD

Closed Cell Elastomeric Thermal / Opencell Acoustic Insulation

ALP AEROFLEX INDIA PRIVATE LIMITED

ALP Aeroflex India Pvt. Ltd., part of the \$120 Million ALP Group, is a joint venture of India-based ALP Overseas and Thailand-based Aeroflex, a part of Eastern Polymer Group that was established in 2011 for the manufacturing of Ethylene Propylene Diene Monomer (EPDM) insulation sheets, tubes and accessories for refrigeration and air-conditioning. With a vast network of strategically located

warehouses and fabrication facilities, the company is uniquely positioned to service customer needs in a timely fashion with products that will meet their specific requirements. The corporate office is situated in the corporate hub of Haryana, Gurgaon, India, and has its plant at Rudrapur in state of Uttarakhand.

ALP AEROFLEX DIFFERENCE

With more than 20 years of experience ALP Aeroflex has become synonymous with quality and reliability, offering sustainable solutions that enhance comfort, save the environment and reduce energy to an absolute minimum.

WE TAKE EVERYTHING TO NEW LEVELS

We are committed to investing in state-of-the-art technology in our manufacturing plants to meet the ever-changing needs of our valued customers.

GROWING GLOBAL FOOTPRINTS

ALP Aeroflex's global manufacturing footprint consists of the world-class plants strategically positioned to serve the clients in different geographical regions of the world.

PROFESSIONAL AND EXPERT TEAM

With a dedicated professional staff, having loads of experience and government approved R&D department, we are able to deliver the quality products to our customers.

COMPETITIVE EDGE

From concept to production, we deliver the best and innovative solution that not only meets exact material requirements, but also gives our customers a competitive edge in their respective markets.



EASTERN POLYMER GROUP

Incorporated in the year 1977 at Thailand, Aeroflex – formally known as Eastern Polymer Industry Co. Ltd has grown leaps and bounds over the years. Today, it is a dynamic Thai-owned conglomerate, Eastern Polymer Group. The group is a reputable manufacturer of the quality plastic, rubber and metal sheet fabricated products. Throughout its 25-year old history, the group has made rapid strides

constantly in all the years and today is a prominent exporter of quality products to more than 100 countries worldwide. A perfect combination of the cutting edge technology and excellent in-house Research and Development (R&D), helps the group to manufacture best in class products, renowned for being energy-efficient, environment-friendly, durable and safe.

QUALITY EXCELLENCE

ALP Aeroflex is one of the fastest growing and respected names globally, providing quality insulation products. Accredited with ISO 9001 quality standard and comply with major standards worldwide. It is committed to helping the customers meet increasing demand for energy efficiency and sustainability in homes, commercial buildings and industrial applications. The products are high in demand globally due to the following unique characteristics:



COMMON CHARACTERISTICS OF NBR & EPDM RUBBER FOAM

1. **Low Thermal Conductivity:** ALP Aeroflex products have low and stable thermal conductivity because of the closed cell structure and dense surface skin.
2. **Low Density:** ALP Aeroflex offers low density (40-60 kg/m³) elastomeric rubber foam with closed cell structure having dry nitrogen gas.
3. **Fire Resistant:** High quality fire retardant chemicals are used for manufacturing the product which slows down the spread of fire. AAIPL products are available in Class 1, Class O and Class A fire classification. Our NBR Class O sheet is FM Approved.
4. **Easy Installation:** AAIPL products are very flexible allowing installers to cut and tailor as per required shape, size, fitting for fast and hassle-free installations.
5. **Environment Friendly:** The products are environment-friendly as they are CFC/HCFC free and play a significant role in conserving the energy. Zero ODP, Zero GWP and Low VOC.
6. **Water Absorption and Moisture Permeability:** AAIPL products have very high vapor resistance. The closed cell structure protects against moisture and assures very low water absorption which can eliminate the need for a water vapor barrier in most applications.
7. **Anti-Fungal and Anti-Bacterial:** AAIPL products are anti-fungal and anti-bacterial. They are best suited for the hospitals/clean room applications.
8. **Temperature Range:** NBR rubber foam is suitable for work in operating temperatures from (-) 40°C to 110°C, while EPDM can work from (-) 57°C to 125°C. However, for higher temperature up to 150°C, Aeroflex HT is recommended.
9. **Neat Appearance:** The flexibility and smooth surface of our products offers neat-finish appearance even at joints, elbows and crossing.
10. **Wide Range of Thickness:** AAIPL offers sheet/tube in various lengths, thickness and dimensions. Tube dia (ID) are available from 6mm to 165 mm and in thickness from 6mm to 32 mm as standard (Higher (ID) and thickness is available on special request). Standard sheet rolls are 1 meter in width in thickness of 6mm to 32 mm. (Higher thickness is available on request).

ADDITIONAL CHARACTERISTICS OF EPDM

1. **EPDM Properties:** The EPDM products have been specially compounded to meet and exceed the international fire standards such as ASTM E84, UL94, JIS K 6911, EMPA, IMO A653 and other standards. The products have low smoke density while burning, does not melt and produce flaming balls.
2. **UV and Weather Resistance:** The best advantage of EPDM based insulation is excellent UV and weather resistance. EPDM is widely used in automobile industry, especially for window strip and rubber hose in engine room. That is why Aeroflex service life lasts more than 25 years for indoor applications at proper thickness.
3. **Non-Polar:** EPDM is non-polar, so it is not reactive with polar solvents. It does not absorb and does not react with water. Therefore, EPDM is not impacted by the water and prevents surface deterioration.
4. **Anti-Vibration:** AAIPL products are highly elastic that ensures low vibration sound of the chilled and hot water pipe lines.



Complete cross-linking closed cell structure.



Low density 40-80 kg/m³ (2.5-5 lbs/ft³) ASTM D 1667



Low thermal conductivity ASTM C 177, C 518



Wide temperature continuous service ranging from -57°C to +125°C



Low water absorption ASTM D 1058, Low water vapor permeability ASTM E 96.



Excellent ozone and weather resistance ASTM D 1171, D 1148

AEROFLEX

EPDM Insulation Sheets/ Tubes

AEROFLEX is a closed cell flexible elastomeric foam made from EPDM rubber. This material has low thermal conductivity and high water vapour diffusion resistance. It is CFC/ HCFC free and dust and fiber free. It ensures energy saving in eco friendly manner. This product meets insulation requirement in diverse fields such as the automobile, air conditioning & refrigeration industry, construction industry, pharma industry, hotels/ hospital and cold storage industry.

PRODUCT FEATURES

Wide Range: 1/4 inch to 10 inches diameter | UV & Weather Resistant | Nitrosamine free in accordance to FDA norms | Non Polar | Anti Fungal & Anti Bacterial | Low density, closed cell structure having low and stabile K value for high energy saving | Environment friendly | Temp. range -2000C to 1250C* | Does not corrode copper tubing | CFC/ HCFC free | Free from Cracking | Quick and easy installation | Low water absorption & low water vapour permeability. | Flame & Smoke proof, meets international fire and smoke standard such as ASTM-E84, UL94, JIS K6911, EMPA, IMO, ASTM - D635.



AEROCELL (FM Approved)

Class-O Nitrile Insulation Sheets/Tubes

AEROCELL is a closed cell flexible elastomeric foam made from Nitrile rubber. This material has low thermal conductivity and high water vapour diffusion resistance. It is CFC/ HCFC free and dust and fiber free. It ensures energy saving in eco friendly manner. This product meets insulation requirement in diverse fields such as the automobile, air conditioning & refrigeration industry, construction industry, pharma industry, hotels/ hospital and cold storage industry

PRODUCT FEATURES

Completely closed cell elastomeric nitrile insulation | Quick and easy to install with no special tools | Flexible, durable and easy to handle | Excellent compression strength due to closed cell structure. | Superior thermal insulation properties over other open or semi closed cell insulation material | Very high diffusion resistance and no cladding is required if installed inside. | It is available with reinforced aluminium foil, Glass cloth and self adhesive backing | Wide working temperature (-40°C to +105°C). | It meets class O fire performance as per BS 476 Part 6 & 7, UL 94 flammability class V-0 and it is **FM Approved**.

Aflex-ECO

Class-1 Nitrile Insulation Sheets/Tubes

Aflex-ECO is a closed cell flexible elastomeric foam made from Nitrile rubber. This material has low thermal conductivity and high water vapour diffusion resistance. It is CFC/ HCFC free and dust and fiber free. It ensures energy saving in eco-friendly manner. This product meets insulation requirement in diverse fields such as the automobile, air conditioning & refrigeration industry, construction industry, pharma industry, hotels/ hospital and cold storage industry.

PRODUCT FEATURES

Completely closed cell elastomeric nitrile insulation Quick | and easy to install with no special tools | Flexible, durable and easy to handle | Excellent compression strength due to closed cell structure. | Superior thermal insulation properties over other open or semi closed cell insulation material | Very high diffusion resistance and no cladding is required if installed inside. | Class 1 fire safety as per BS 476 part 7.

BIO-FLEX

Bio-flex, the new range of anti-microbial cellular elastomeric nitrile rubber insulation from Aerocell.

ALP Aeroflex has regularly displayed an ability to innovate and bring a range of quality rubber products. Continuing in the same spirit to innovate, upgrade and expand, the company has introduced the anti-microbial closed cell expanded elastomeric nitrile insulation.

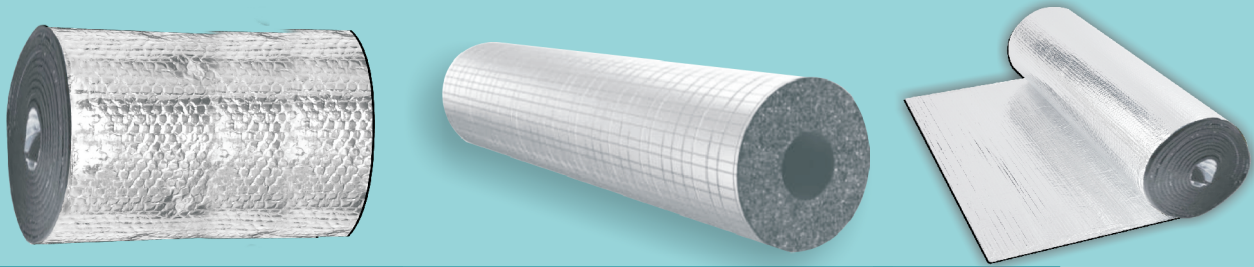
The improved cell structure of Bio-Flex has improved thermal insulation properties, superior protection against microbes, fungi and bacteria and improved resistance to moisture and vapour transmission. This is a light weight flexible foam material designed for hospitals/operation theater/hotels and clean room insulation applications. It is available in sheet and pipe form.



AEROCELL & AEROFLEX

with Aluminum Foil

It is a flexible thermal insulation material made from closed-cell, elastomeric Nitrile /EPDM rubber with an Aluminum Foil facing for insulation of duct/pipes/vessels with superior fire performance. It has very high resistance to water vapour transmission. Widely used for underdeck roofing, pharma & clean room application. These products meet insulation requirements in diverse fields such as the air conditioning & refrigeration industry, construction industry, hospitals, pharma industry, hotels and cold storage industries.



AEROCELL & AEROFLEX

with Glass Cloth

ALP Aeroflex offers Aerocell and Aeroflex GC (Class 0) – the new range of high quality factory laminated Glass cloth Nitrile/EPDM elastomeric insulation foam sheet. This flexible foam is processed from high quality EPDM/Nitrile insulation material. It is easy to use and is designed to prevent heat gain, heat loss and prevent frost and condensation. The UV resistant treated glass cloth protects the soft foam from mechanical damage and is scratch proof. It is available in five colors – Black, White, Red, Green and Blue.

Product Features: Suitable for harsh conditions | Reinforced with glass fiber covering | Resistance against mechanical impact/scratch | Easy to install without special tools



SELF-ADHESIVE SHEETS

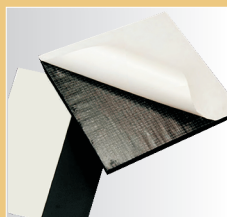
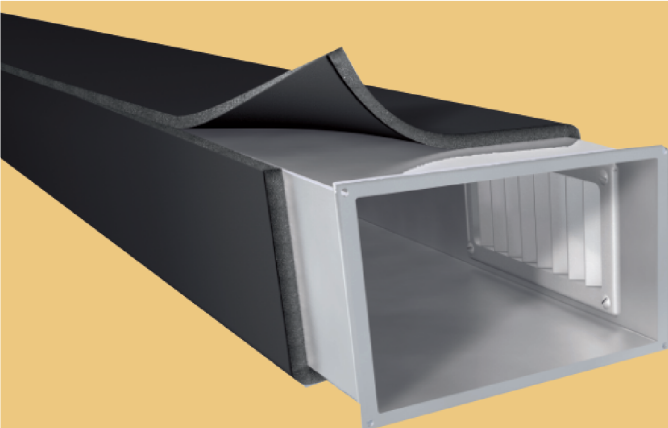
(EPDM & NITRILE)

The self-adhesive sheets are Nitrile/EPDM sheets with pre-laminated adhesive release paper.

These sheets offer faster and higher quality insulation. They have neat finish and aesthetic appearance on the duct/ pipe. Reduces time and cost of installation.

Product Features:

Fire safe performance | Prevents condensation | No vapour barrier required | Reduces energy losses | Low thermal conductivity | Completely closed cell structure.

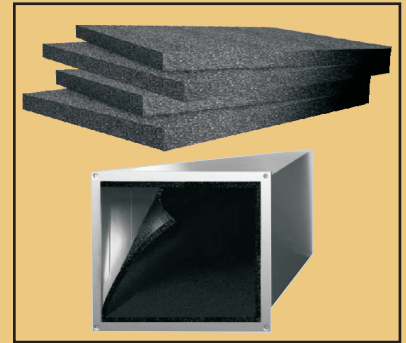


ACCOSOUND

Accosound is a blended elastomeric nitrile rubber acoustic absorber having open cell structure with complex pore geometry for effective absorption of air-borne sound across a broad range of frequencies.

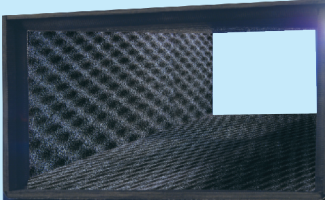
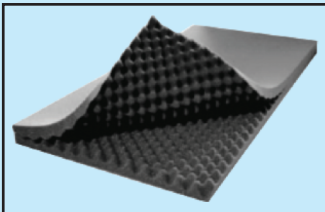
The high density provides an effective barrier to sound transmission. The elastic properties helps to dampen the structure-borne noise transmission. **(EPA approved anti-microbial agent)**

Advantages: Effective noise control and thermal insulation | Dust and fiber free | Resistant to mineral oil, Organic solvents and dilute in organic acids & bases | EPA approved anti-microbial agent | Fire safety Class 1 | Anti-Bacterial | Anti-Fungal



ACCOFOAM

Class O & Class 1



ACCOFOAM is a thermo-acoustic convoluted elastomeric Nitrile rubber foam material scientifically developed to provide superior sound absorption in the low and mid frequency range. The convoluted shape increases the absorptive surface area than a flat surface and it entraps and deflects sound waves efficiently. ACCOFOAM is a great choice where a fire safe, flexible, light weight, high performance noise absorption material is required.

ACCOFOAM is an excellent internal insulation lining material for circular ducts and provides both thermal and acoustic insulation.

Product Features:

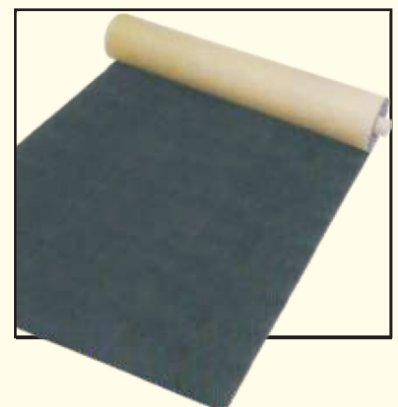
Good sound absorption | Fire Safety - Class O | Vibration/Joiting-resistant | Easy to apply | Light weight & flexible | No health hazard | No fungal growth | Fiber free | Antimicrobial range is also available | EPA approved anti-microbial agent

MTS (SOUND INSULATION RUBBER SHEET)

MTS is a kind of unvulcanized butyl rubber sheet with high specific gravity having outstanding chemical stability, sound insulation and vibration damping property. This is a light weight flexible foam material designed for clean room insulation applications. It is available in sheet and pipe form.

APPLICATIONS

- Sound insulation material for studios, auditoriums, hotel rooms, sound proof rooms, etc.
- Insulation material for air-conditioner, refrigerator, washing machine, automobile and machine tools.



SILVER CLAD



Silver clad is a double layer laminate of aluminum, coated with a special UV protection and a PVC backing. This system is highly puncture and tear resistant as well as flame retardant and can be used for exterior and interior facing of hot and cold insulation. It combines an excellent vapour barrier with water tightness. A product that combines optimal physical properties, hundred percent water tightness and vapour barrier, resistance against climatic influences with appealing appearance and easy installation.

Product Application: Indoor | Outdoor | Hot Insulation | Cold Insulation

Utilisation: Construction industry | Chemical & petrochemical industry | HVAC | Power plants | OEM | Food industry | Ship building / Offshore | Pharmaceutical industry

AEROTAPE®

THE HIGH QUALITY
SELF ADHESIVE
EPDM INSULATION
FOAM TAPE



EVERSEAL®

Pipe Insulating Cork Tape

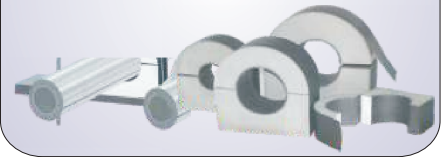
This is specially designed for all types of climate. It insulates cold pipes for all kinds of air conditioners used in car homes, freezers and refrigerators.



AEROFIX™

POLYMERIC RIGID FOAM SUPPORTOR
WITH FOAM TAPE AND SELF-SELING TAPE

Supporting and fixing of pipes used in Chilling, Air-conditioning and Refrigeration systems.



ECOTAPE

Self-adhesive Foam Tape processed from Class 'O' Nitrile rubber insulation
Self-adhesive rubber tape for insulation tubes and sheets joints



ALUTAPE®

for protecting and cladding tubes
Self-adhesive
Aluminium foil tape
and sheets joints



AEROSEAL®

Adhesive for bonding
closed cell
elastomeric
insulation



PROTAPE™

SELF-ADHESIVE
EPDM RUBBER TAPE
For Insulation
Tubes & Sheets
Joints



AEROSTICK®

ADHESIVE FOR EPDM/NITRILE INSULATION

Adhesive for bonding
ALP Aeroflex
closed cell
elastomeric
insulation



DUCT FLANGE TAPE

foam gasket tape for
Self Adhesive
elastomeric
air-duct flange
connection.



CERTIFICATIONS



Manufactured and Marketed by:

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