

# AEROFLEX<sup>®</sup>

Closed Cell Elastomeric EPDM Thermal/ Acoustic Insulation



**THE IDEAL EPDM THERMAL/  
ACOUSTIC INSULATION  
FOR HVAC & R**

**COMPLETE SOLUTION TO INSULATION**



## A Profile of Pioneers

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### **ALP Aeroflex India Pvt. Ltd.**

ALP Aeroflex India Pvt. Ltd. is a joint venture between ALP overseas Pvt. Ltd. of India and Eastern Polymer Industries of Thailand for the manufacturing of EPDM Insulation Sheets, Tubes and Accessories for the refrigeration process, solar and air-conditioning requirements. The corporate office of the company is situated in the corporate hub of Haryana, Gurgaon, India having its plant in Rudrapur, Uttarakhand, INDIA

### **ALP Group**

Established in 1984, with the aim of giving its customers the best in polymer application sealing, ALP Group today is India's leading producer of automotive, industrial as well as consumer application sealing products. Spanning a diverse market comprising automotive, construction, consumer, railways, miscellaneous door and window applications and more, ALP's Research & Development Engineering Team develops innovative areas of sealing applications, with rubber as its base product.

A pioneer in introducing EPDM weatherstrips in India, ALP has diversified into automotive applications, PVC thermoplastic and Santoprene products, insulation rubber sheets and tubes for airconditioners as well as refrigeration application. We offer expert and cost-effective services, right from indigenous compound formulation to production of the finished products.

ALP has translated its vision into reality by increasing its national presence to north-east and north-west India from its headquarters in Gurgaon.

The ALP family company comprises:

- i) ALP Overseas Pvt. Ltd.,
- ii) ALP Nishikawa Company Limited,
- iii) ALP Plastics Pvt. Ltd.
- iv) ALP Aeroflex India Pvt. Ltd
- v) ALP Polymer Park Pvt. Ltd.

### **Eastern Polymer Group**

Established in Thailand in 1977, Aeroflex Co., Ltd. formerly known as Eastern Polymer Industry Co., Ltd. has grown rapidly through the years, and is today a dynamic Thai-owned conglomerate, Eastern Polymer Group. The group produces plastic, rubber and metal sheet fabricated products, as well as automotive accessories and garments via a network of seven companies, four subsidiaries and six joint-venture firms worldwide.

Throughout its 25-year history, the group has developed continuously in all areas, and today exports to more than 100 countries worldwide. Employing the most advanced technology and backed by excellent in-house R&D, the group manufactures products that are renowned for being energy saving, environmentally friendly and safe.

### **Rubber products**

The group is earliest providers of products under this category were Eastern Polymer Industry Co., Ltd., (established in 1977) now renamed as Aeroflex Co., Ltd., and Aeroflex International Co., Ltd., (1994) now renamed as Aeroklas Co., Ltd., So well received were these products that the group decided to expand its rubber business, and opened additional plants in Shanghai, China [Aeroflex Insulation (Shanghai) Co., Ltd.] in 2002, renamed as Aeroflex Polymer Technologies (Shanghai) Co., Ltd. and now in India in the name of ALP Aeroflex India Pvt. Ltd.



*Eastern Polymer Industries  
Thailand*



*ALP Aeroflex India Pvt. Ltd.  
Corporate Office at Gurgaon, India*



*ALP Aeroflex India Pvt. Ltd.  
Plant at Rudrapur (Uttarakhand) India*



# AEROFLEX - S EPDM Closed Cell Elastomeric Thermal Insulation (Non - Polar)

## Application Areas

- Duct Insulation.
- Chilled Water piping
- Roof Insulation.
- Refrigerant Piping
- Raised Floor Insulation.
- Underslab Insulation.
- General Thermal Insulation (large diameter pipes, tanks, vessels, etc).
- AC Unit Insulation (internal insulation of units, evaporators, etc).
- Clean Room Applications
- Cold Storage Applications.
- Solar Plumbing Applications.
- Transport Segment AC Units



## AEROFLEX® - S EPDM insulation specification sheet

PHYSICAL PROPERTIES		AEROFLEX				TEST METHOD	
Cell Structure		Closed cell					
Density (g/cm³)		60±10% kg/m³				ASTMD 1667	
Thermal conductivity (W/mk)	Mean temp.	(-20°C)	(0°C)	(24°C)	(32°C)	(40°C)	ASTM C177 JIS A 1412 DIN 52613
	K-value	0.031	0.033	0.035	0.0365	0.0374	
Service temperature		-200°C to 125°C*				AEROFLEX becomes hard at -57°C, but can be used even at -200°C	
Water Vapor permeability perm-in (g/Pa.s.m) Moisture Resistance factor		μ ≥ 10000				EN12086	
Ozone Resistance		No crack				ASTM D 1149	
Fungal Resistance		Antifungal				ASTM G21	
Bacteria		Antibactria				ASTM 2180	
Flammability & Smoke, Density		Class1				BS 476 Part 7	
		Class 'O'				BS476 Part 6	
		Class V O				UL-94	
		25/50				ASTM E 84	
		Self - extinguishing				ASTM D 635	
		Class 5.3				EMPA (Switzerland)	
		Non-Flammable				JIS K 6911	
		Pass				IMO	
U.V. Weather Resistance		Excellent				—	
Corrosion of copper, stainless		Non corrosive				DIN 1988	
Nitrosamine Contents		Non detected				U.S. FDA	
Sound reduction (ΔL)		27 dB (20 mm)				DIN 52218	

\* For temperature range of 175°C, please contact our technical team

### Box Packing

Code	Size			
	Thickness (mm)	Width (m)	Length (m)	Area/Roll (m <sup>2</sup> )
MSR 03*	3	1.0	45	45
MSR 06*	6	1.0	22	22
MSR 09*	9	1.0	15	15
MSR 13	13	1.0	11	11
MSR 16	16	1.0	10	10
MSR 19	19	1.0	7	7
MSR 25	25	1.0	5	5
MSR 32	32	1.0	4	4
MSR 38	38	1.0	3	3
MSR 50	50	1.0	2	2

Note: Packing may be subjected to change without prior notice.

\* 3,6 and 9 mm thick sheet have one side skin.

ALP Aeroflex Insulation Tube:



### Plastic Sheet Packing (as per Nitrile sheet)

Code	Size			
	Thickness (mm)	Width (m)	Length (m)	Area/Roll (m <sup>2</sup> )
MSR 03*	3	1.0	50	50
MSR 06*	6	1.0	40	40
MSR 09*	9	1.0	30	30
MSR 13	13	1.0	25	25
MSR 16	16	1.0	20	20
MSR 19	19	1.0	15	15
MSR 25	25	1.0	10	10
MSR 32	32	1.0	8	8
MSR 38	38	1.0	6	6
MSR 50	50	1.0	4	4

ALP Aeroflex Sheet Roll:



# AEROFLEX® - T EPDM Insulation Tube (Non-Polar)

## PRODUCT FEATURES



- Wide Range: 1/4 inch to 10 inches diameter
- All Weather Resistant
- UV and Ozone Resistant
- Nitrosamine free (in accordance to FDA norms)
- Non Polar
- Anti Fungal as per ASTM G21
- Anti Bacterial as per ASTM 2180
- Excellent Thermal Insulation, Energy Saving
- Ideal for VRV, Chilled water pipe insulation
- Excellent for Solar applications
- Environment friendly
- Temp. range -200°C to 125°C\*
- Does not corrode copper tubing
- CFC/ HCFC free
- Free from Cracking
- Quick and easy installation

\* For Temperature range of 175°C please contact our technical team

## AEROFLEX® - T EPDM Insulation tube : 2m length/ Piece

I.D. SIZE		Code number (Quantity: Pcs/Carton)								
MM	INCH	L.P.S	6 mm wall	9 mm wall	13 mm wall	19 mm wall	25 mm wall	32 mm wall	38 mm wall*	50 mm wall*
6	1/4"	—	M06006 (378)	M09006 (208)	M13006 (120)	M19006 (56)	M25006 (35)	—	—	—
10	3/8"	—	M06010 (238)	M09010 (154)	M13010 (90)	M19010 (45)	M25010 (30)	—	—	—
13	1/2"	1/4"	M06013 (195)	M09013 (120)	M13013 (72)	M19013 (42)	M25013 (24)	M32013 (20)	—	—
16	5/8"	3/8"	M06016 (154)	M09016 (99)	M13016 (63)	M19016 (35)	M25016 (20)	M32016 (16)	M38016 (12)	—
19	3/4"	—	M06019 (120)	M09019 (80)	M13019 (56)	M19019 (30)	M25019 (20)	M32019 (12)	M38019 (12)	—
22	7/8"	1/2"	M06022 (99)	M09022 (72)	M13022 (48)	M19022 (30)	M25022 (20)	M32022 (12)	M38022 (12)	—
25	1"	3/4"	M06025 (80)	M09025 (63)	M13025 (42)	M19025 (30)	M25025 (20)	M32025 (12)	M38025 (9)	M50025 (6)
28	1-1/8"	—	M06028 (72)	M09028 (56)	M13028 (42)	M19028 (20)	M25028 (20)	M32028 (12)	M38028 (9)	M50028 (6)
32	1-1/4"	—	M06032 (56)	M09032 (42)	M13032 (36)	M19032 (20)	M25032 (16)	M32032 (12)	M38032 (9)	M50032 (4)
35	1-3/8"	1"	M06035 (48)	M09035 (42)	M13035 (30)	M19035 (20)	M25035 (14)	M32035 (9)	M38035 (6)	M50035 (4)
38	1-1/2"	—	M06038 (42)	M09038 (35)	M13038 (30)	M19038 (20)	M25038 (12)	M32038 (9)	M38038 (6)	M50038 (4)
42	1-5/8"	1-1/4"	M06042 (42)	M09042 (30)	M13042 (25)	M19042 (19)	M25042 (12)	M32042 (9)	M38042 (6)	M50042 (4)
45	1-3/4"	—	—	M09045 (30)	M13045 (20)	M19045 (12)	M25045 (12)	M32045 (6)	M38045 (6)	M50045 (4)
48	1-7/8"	1-1/2"	—	M09048 (20)	M13048 (20)	M19048 (12)	M25048 (12)	M32048 (6)	M38048 (6)	M50048 (4)
51	2"	—	—	M09051 (20)	M13051 (20)	M19051 (12)	M25051 (9)	M32051 (6)	M38051 (6)	M50051 (4)
54	2-1/8"	—	—	M09054 (20)	M13054 (16)	M19054 (12)	M25054 (9)	M32054 (6)	M38054 (6)	M50054 (4)
57	2-1/4"	—	—	M09057 (20)	M13057 (12)	M19057 (12)	M25057 (9)	M32057 (6)	M38057 (4)	M50057 (4)
60	2-3/8"	2"	—	M09060 (20)	M13060 (12)	M19060 (12)	M25060 (9)	M32060 (6)	M38060 (4)	M50060 (4)
64	2-1/2"	—	—	M09064 (16)	M13064 (12)	M19064 (9)	M25064 (6)	M32064 (6)	M38064 (4)	M50064 (2)
67	2-5/8"	—	—	M09067 (12)	M13067 (12)	M19067 (9)	M25067 (6)	M32067 (6)	M38067 (4)	M50067 (2)
73	2-7/8"	2-1/2"	—	M09073 (12)	M13073 (12)	M19073 (6)	M25073 (6)	M32073 (4)	M38073 (4)	M50073 (2)
76	3"	—	—	M09076 (12)	M13076 (11)	M19076 (6)	M25076 (6)	M32076 (4)	M38076 (4)	M50076 (2)
80	3-1/8"	—	—	M09080 (12)	M13080 (9)	M19080 (6)	M25080 (6)	M32080 (4)	M38080 (4)	M50080 (2)
83	3-1/4"	—	—	M09083 (9)	M13083 (9)	M19083 (6)	M25083 (4)	M32083 (4)	M38083 (4)	M50083 (2)
90	3-1/2"	3"	—	M09090 (9)	M13090 (9)	M19090 (6)	M25090 (4)	M32090 (4)	M38090 (2)	M50090 (2)
92	3-5/8"	—	—	—	M13092 (6)	M19092 (6)	M25092 (4)	M32092 (4)	M38092 (2)	M50092 (2)
98	3-7/8"	—	—	—	M13098 (6)	M19098 (4)	M25098 (4)	M32098 (4)	M38098 (2)	M50098 (1)
102	4"	—	—	—	M13102 (6)	M19102 (4)	M25102 (4)	M32102 (2)	M38102 (2)	M50102 (1)
105	4-1/8"	—	—	—	M13105 (6)	M19105 (4)	M25105 (4)	M32105 (2)	M38105 (2)	M50105 (1)
108	4-1/4"	—	—	—	M13108 (4)	M19108 (4)	M25108 (4)	M32108 (2)	M38108 (2)	M50108 (1)
115	4-1/2"	4"	—	—	M13115 (4)	M19115 (4)	M25115 (2)	M32115 (2)	M38115 (2)	M50115 (1)
130	5-1/8"	—	—	—	M13130 (4)	M19130 (2)	M25130 (2)	M32130 (2)	M38130 (1)	—
140	5-1/2"	5"	—	—	M13140 (2)	M19140 (2)	M25140 (2)	M32140 (1)	M38140 (1)	—
165	6-1/2"	6"	—	—	M13165 (2)	M19165 (2)	M25165 (2)	M32165 (1)	M38165 (1)	—

Note : \* 38mm. and 50mm. thick tube and 6" to 10" dia tubes available on request.

## Average Nominal Wall Thickness Insulation Tube

I.D. SIZE	nominal wall 3/8" (9mm)	nominal wall 1/2" (13mm)	nominal wall 3/4" (19mm)	nominal wall 1" (25mm)	nominal wall 1-1/4" (32mm)	nominal wall 1-1/2" (38mm)	nominal wall 2" (50mm)
9 mm to 28 mm	9 ± 1	12.5 ± 1	19 ± 1	25 ± 1	32 ± 2	38 ± 2	50 ± 2
32 mm to 80 mm	9.5 ± 1	13.5 ± 1	20 ± 1	26 ± 1	33 ± 2	39 ± 2	51 ± 2
90 mm to 140 mm	10 ± 1	14.5 ± 1	21 ± 1	27 ± 1	34 ± 2	40 ± 2	52 ± 2

Remark: I.D size 9 mm to 28 mm... + approx 1.5 mm, I.D size 35 mm to 80 mm... + approx 2.0 mm  
I.D size 90 mm to 140 mm... + approx. 3.0 mm. Aeroflex 6 length... 182 + 3 cm Aeroflex 2 meter length... 202 + 3 cm

# AEROFLEX - A (ACCESSORIES)

## The High Quality Self Adhesive Insulation EPDM Tape

(3mm thick x 50mm wide x 9.1m long x 20 Pcs per Box)



## AEROTAPE®

## PROTAPE™



### Self-adhesive EPDM Elastomeric Tape for extra protection against humidity

0.6mm x 25mm x 25mtr x 24 pcs per box  
0.6mm x 50mm x 25mtr x 12 pcs per box

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



## ALUTAPE®

50mm x 50yds x 24 pcs per box

## AEROSEAL®

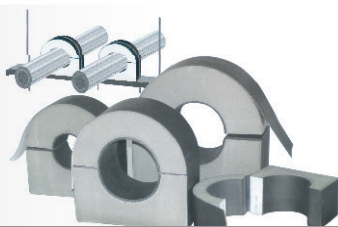


Adhesive for bonding  
closed cell elastomeric insulation

700gm per Can x 12 Can per box  
3500gm per Can x 3 Can per box

### POLYMERIC RIGID FOAM SUPPORT WITH FOAM TAPE AND SELF-SEALING TAPE

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

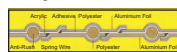


## AEROFIX™

## AERODUCT™

### TWO PLY DOUBLE FACING FLEXIBLE ALUMINIUM AIR DUCT

TWO PLY



**MORE DURABLE!**

Ideal for

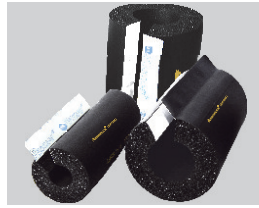
- Heating and Cooling System
- All Airconditioning and Ventilating System
- Exhausting System



## SPECIAL PRODUCTS

### Retrofit Tube

- Pre-slit insulation tube with self sealing adhesive lining, protape covered
- Thickness 9mm to 50mm
- Inner Dia Options 13mm to 165mm
- Excellent solution for insulating retrofit pipelines
- Energy savings
- Dust and fiber free



### Large Diameter Pipes

- Excellent resistance to moisture and water vapour diffusion
- Thickness 63mm/ 75mm/ 100mm
- Inner Dia Options 8" to 10"
- Dust and fiber free



## ALP AEROFLEX INDIA PVT. LTD.

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Authorised Distributor/ Dealer